

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

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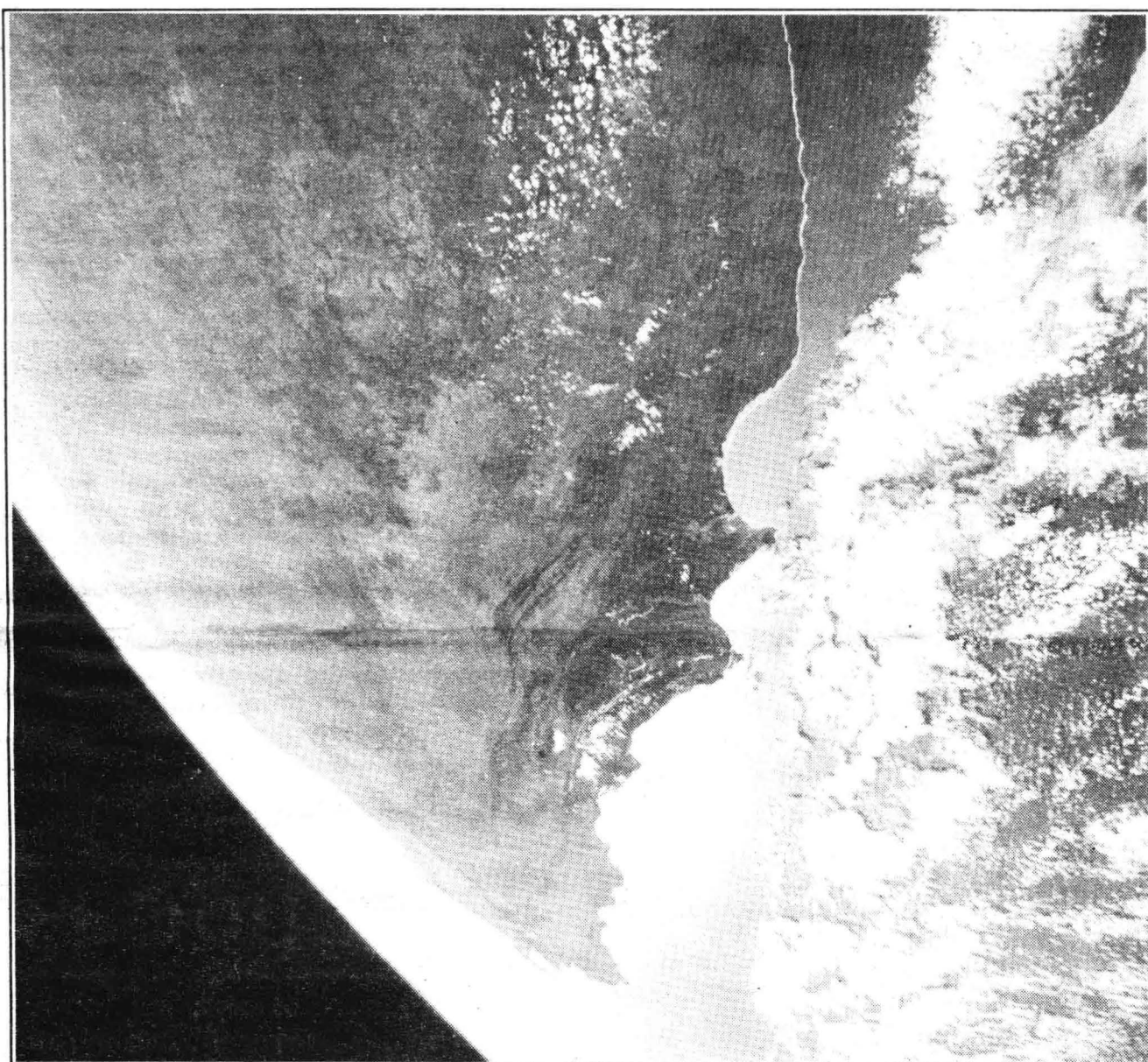
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New "Bird" Being Designed Here



South Africa, where another Amateur Radio satellite is being designed (see story at right), is shown in this view taken from space shuttle mission STS-58, which orbited from October 18 to November 1, 1993. In this scene, Cape Agulhas, the southernmost point on the continent, appears as the leftmost cape. The view direction is with north at top right. The Cape of Good Hope, with Cape Town nearby, is the thin spike beyond. The great bay in the foreground is Algoa Bay with the city of Port Elizabeth. The entire fold mountain belt of southern Africa is visible: these appear as wavy structures stretching west from the foreground, to the Cape of Good Hope, then northwards some distance. One theory about their origin is that the Falkland Plateau, now an undersea extension of South America, was jostled up against Africa more than 150 million years ago, in times before the Atlantic Ocean existed, before Africa and South America drifted apart from one another. The jostling caused the evolution of the fold mountain belt.

- NASA photo

New Satellite Planned

A satellite now being designed in South Africa will include an extensive Amateur Radio package and is scheduled for launch in January 1996, according to South African amateur satellite enthusiasts, as announced in a release from Henry Chamberlain, ZS1AAZ.

Called Sunsat, the satellite is being designed and built by engineering students at the Electronic Systems Laboratory at Stellenbosch University.

In exchange for a US National Aeronautics and Space Administration launch, Sunsat will carry a precision GPS receiver and a set of Laser retro-reflectors, for NASA's use.

The Amateur Radio payload was approved at the SA-AMSAT Spacecon 91 Conference. It includes duplicate transmitters and receivers for the 2-meter and 70-cm bands, a 24-cm (1260 MHz) receiver and 13-cm (2400-MHz) receiver. A number of uplink and downlink frequency combinations are possible.

Sunsat will offer extensive digital communication capability. One of the 2-meter receivers has four IF sections connected to 1200-baud AFSK packet modems. The satellite carries three G3RUH-compatible 9600-baud modems that can be switched to various receivers and transmitters. The designers say that ground-station requirements are minimal. Data communication between stations running 10 W transmitters and dipole antennas will be practical. Since large quantities of data can be stored in the satellite, global data transfer will be possible.

Sunsat carries a number of educational experiments, including a 2-meter "parrot" mode repeater intended for amateurs new to satellite operating. Uplinked speech will be digitally stored and retransmitted on the same frequency, enabling school users to hear the retransmission and know that they are getting through.

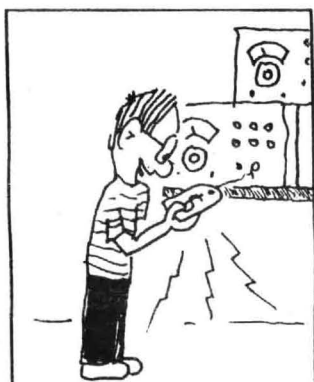
- ARRL Bulletin ARLS001, 01/05/95

A new Russian Amateur Radio satellite was recently orbited and is now in operation. Please see "Here and There" on page 5 of this issue for details about the new bird and the new vehicle which was used to orbit the satellite. □

1995 WISCONSIN QSO PARTY
Sunday, March 15, 1995 Local Time
Sponsored by the West Allis Radio Amateur Club
Full information, rules, score sheet, dupe list on pages 7 and 8

ELMER

By Rich Regent, K9GDF



Badger State Smoke Signals

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WHAT'S HAPPENING

✂ Swapfests and Other Social Events ✂ Club Meetings ✂ Amateur Radio Exam Schedules

EDITED BY KENNETH A. EBNETER, K9EN, 822 WAUONA TRAIL, PORTAGE, WI 53901

Swapfests and Other Social Events

SUNDAY, FEBRUARY 26, 1995. SEWFARS 146.82 Repeater Society, Inc./MACE The Milwaukee Computer Club Swapfest and Computer Fair. at Kugitsch's Entertainment Center, 1600 W Cleveland Ave., New Berlin, WI, 6:00 a.m. to 2:00 p.m. Amateur Radio exams held, bring your paperwork with you. Admission \$3.00. 4' tables \$4.00. Electrical outlets \$5.00. Reservation deadline, February 11, 1995. Send check and SASE to SEWFARS/MACE Swapfest, PO Box 102, Delafield, WI 53018. Telephone (414) 771-1250, Fax (414) 542-7474, or LL BBS (414) 789-1034. Or inquire on 146.82.

-SATURDAY, FEBRUARY 11, 1995. MIDWINTER MADNESS, 1995. at the National Sports Center, Blaine, MN. Contact: Robbinsdale ARC, PO Box 22613 Robbinsdale, MN 55422 (612) 537-1722.

TUESDAY, FEBRUARY 28, 1995. Northern Wisconsin Radio Club Auction. Contact: Steve Hart, KA9OMC, Route 1, Box 54, Knapp, WI 54749.

SUNDAY, MARCH 19, 1995. Tri-County Amateur Radio Club Hamfest, Jefferson County Fairgrounds Activity Center, Jefferson, WI. Contact: TCARC, W9MQB, 213 Frederick, Fort Atkinson, WI 53538. (414) 563-6381 (evenings).

SUNDAY, APRIL 2, 1995. Madison Swapfest. Dane County Expo Center Forum building. Electronic equipment and components for Hams, computer hobbyists and experimenters. Commercial dealers for new and used equipment. For information on booths, tables and tickets contact: MARA, PO Box 8890, Madison, WI 53708-8890.

SATURDAY, APRIL 8, 1995. AHSTC and Brown County ARES Swapfest, Ashwaubenon High School,

2391 South Ridge Road, Green, Bay, WI. Contact: Chad Stiles, N9PAY, 2171 Barberry Lane, Green Bay, WI 54304. (414) 494-2936 or Lisa Kolbusz, N9VJL, 520 Columbia #A, Green Bay, WI. (414) 497-1807.

SUNDAY, APRIL 9, 1995. Electronic expo & Hamfest, Metro Center, Rockford, IL. Contact Wayne or Fay at (815) 397-6027.

SATURDAY, MAY 6, 1995. Ozaukee Radio Club, Swapfest, Cedarburg, WI. Circle B Recreation Center, intersection of highways 60 and county I. Advance admission \$2.00 (\$3.00 at door), Tables: 4 foot \$3.00. Contact: ORC Swapfest committee, W70 N1018 Hampton Ct., Cedarburg, WI 53012.

SATURDAY, MAY 13, 1995. Lakeshore Hamfest. Contact: ManCoRad. PO Box 204, Manitowoc, WI 54221-0204.

SATURDAY, JULY 8, 1995. South Milwaukee Swapfest, American Legion Post 434, Oak Creek, WI. Contact SMARC, PO box 102, South Milwaukee, WI 53172. (414) 762-3235.

SUNDAY, JULY 30, 1994. Racine Hamfest, Racine, WI. Contact: Racine Megacycle Club, PO Box 3, Racine, WI 53401-0003.

SATURDAY, AUGUST 12, 1995. Northwoods Hamfest, at Sugar Camp town hall near Rhinlander, WI. Contact Mary Berger, NS9Q, 367 Lois St., Rhinlander, WI 54501. (715) 362-9296.

SATURDAY, AUGUST 26, 1994. Riverland Hamfest-Computer Expo and Antique radio show. La Crosse, WI. Contact: Dick Low, KOJYB, 1520 Nakomis Ave., La Crosse, WI 54603. (608) 784-9176.

SATURDAY, SEPTEMBER 2, 1995. Hayward, WI Hamfest. Sponsored by Namekagon Valley Wireless Association. Held at the Armory in Hayward from 7:00 a.m. to 3:00 p.m.

SATURDAY, NOVEMBER 4, 1995. 11th annual Friendlyfest at the Waukesha County Expo Center, Waukesha, WI. Contact Milwaukee Repeater Club, Inc., PO Box 2123, Milwaukee, WI 53201.

See also the back page and flyer ads for additional information on many of these events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the January 1995 meetings column for the latest complete listing. The following are additions or changes since that listing.

M & M AMATEUR RADIO CLUB

General meeting held second Thursday each month at 7:00 p.m. at Menominee BAMC 4th floor, Tenth Ave., Menominee, MI 49858.

MANITOWOC COUNTY RADIO AMATEURS

Directors Meeting: First Wed. Held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin St., Manitowoc.

General meeting: Second Wed. Held at 7:30 p.m. at Associated Manitowoc Bank, corner of 8th and Franklin Streets.

WISCONSIN RAPIDS AMATEUR RADIO CLUB

Third Wednesday, 7:00 p.m. Emergency Government Office, Wood County Court House. Talk-in on 146.79 for entry into the building.

Net on Sundays at 8:00 p.m. on 146.79.

Badger State Smoke Signals

Amateur Radio Education and Information

CHAIRMAN: Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

EDITOR: Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031.

TREASURER: Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

CONTRIBUTING AUTHOR: Richard R. Regent, K9GDF, 5003 South 28th Street, Milwaukee, WI 53221.

Subscriptions

1 year	(12 issues)	\$12.00
2 years	(24 issues - save \$2.00)	\$22.00
3 years	(36 issues - save \$4.00)	\$32.00

Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that

month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebnetter.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebnetter.

Swapfest information should be sent to Ken Ebnetter. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. THIS CREDIT IS MANDATORY, AND NO MATERIAL MAY BE PRINTED OR POSTED UNLESS IT IS GIVEN. This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901. *Badger State Smoke Signals* is incorporated as a Wisconsin non-stock, non-profit organization.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

The Test Point



Amateur Radio Examination Locations and Schedules in the Wisconsin Area

February 4, 1995	Oak Creek, WI (SWAT/MRAC)
February 4, 1995	Racine, WI
February 4, 1995	River Falls, WI
February 11, 1995	Madison, WI
February 15, 1995	West Allis, WI (MRAC)
February 18, 1995	Dubuque, IA
February 18, 1995	Marshfield, WI
February 18, 1995	Loves Park, IL
February 18, 1995	Milwaukee, WI (BE)
February 25, 1995	Wauwatosa, WI (MRAC)
February 25, 1995	Tomahawk, WI
February 26, 1995	New Berlin, WI
	SEWFARS/MACE Swapfest
March 4, 1995	Oak Creek, WI (SWAT/MRAC)
March 4, 1995	Racine, WI
March 11, 1995	Madison, WI
March 15, 1995	West Allis, WI (MRAC)
March 18, 1995	Loves Park, IL
March 18, 1995	Milwaukee, WI (BE)
March 25, 1995	Wauwatosa, WI (MRAC)
March 25, 1995	Menomonie, WI
March 25, 1995	Tomahawk, WI
April 1, 1995	Oak Creek, WI (SWAT/MRAC)
April 1, 1995	Racine, WI

April 1, 1995 River Falls, WI
 April 8, 1995 Madison, WI
 April 8, 1995 Green Bay, WI
 ARES Hamfest
 April 15, 1995 Marshfield, WI
 April 15, 1995 Loves Park, IL
 April 15, 1995 Milwaukee, WI (BE)
 April 19, 1995 West Allis, WI (MRAC)
 April 29, 1995 Wauwatosa, WI (MRAC)
 April 29, 1995 Tomahawk, WI
 May 6, 1995 Racine, WI
 May 6, 1995 Cedarburg, WI (BE)
 Ozaukee Swapfest
 May 13, 1995 Madison, WI
 May 13, 1995 Oak Creek, WI (SWAT/MRAC)
 May 17, 1995 West Allis, WI (MRAC)
 May 20, 1995 Dubuque, IA
 May 20, 1995 Loves Park, IL
 May 27, 1995 Wauwatosa, WI (MRAC)
 May 27, 1995 Tomahawk, WI
 June 3, 1995 Racine, WI
 June 3, 1995 River Falls, WI
 June 10, 1995 Madison, WI
 June 21, 1995 West Allis, WI (MRAC)
 June 17, 1995 Loves Park, IL
 June 24, 1995 Wauwatosa, WI (MRAC)
 June 24, 1995 Tomahawk, WI
 July 8, 1995 Oak Creek, WI
 SMARC Hamfest
 July 19, 1995 West Allis, WI (MRAC)
 July 15, 1995 Loves Park, IL
 July 29, 1995 Wauwatosa, WI (MRAC)
 July 29, 1995 Tomahawk, WI
 July 30, 1995 Racine, WI
 Racine Hamfest
 August 5, 1995 River Falls, WI
 August 12, 1995 Marshfield, WI
 Northwoods Hamfest
 August 16, 1995 West Allis, WI (MRAC)
 August 19, 1995 Loves Park, IL
 August 26, 1995 Wauwatosa, WI (MRAC)
 August 26, 1995 Tomahawk, WI
 September 2, 1995 Oak Creek, WI (SWAT/MRAC)
 September 2, 1995 Racine, WI
 September 9, 1995 Madison, WI
 September 10, 1995 Dubuque, IA
 Dubuque Hamfest
 September 20, 1995 West Allis, WI (MRAC)
 September 16, 1995 Loves Park, IL
 September 30, 1995 Wauwatosa, WI (MRAC)
 September 30, 1995 Tomahawk, WI
 October 7, 1995 Racine, WI
 October 7, 1995 River Falls, WI
 October 7, 1995 Oak Creek, WI (SWAT/MRAC)
 October 14, 1995 Madison, WI
 October 18, 1995 West Allis, WI (MRAC)
 October 21, 1995 Loves Park, IL
 October 28, 1995 Wauwatosa, WI (MRAC)
 October 28, 1995 Tomahawk, WI
 November 4, 1995 Racine, WI
 November 4, 1995 Oak Creek, WI (SWAT/MRAC)
 November 4, 1995 Menomonie, WI
 November 11, 1995 Marshfield, WI
 November 11, 1995 Madison, WI
 November 15, 1995 West Allis, WI (MRAC)
 November 18, 1995 Dubuque, IA
 November 18, 1995 Loves Park, IL
 November 25, 1995 Wauwatosa, WI (MRAC)
 December 2, 1995 Oak Creek, WI (SWAT/MRAC)
 December 2, 1995 Racine, WI
 December 2, 1995 River Falls, WI
 December 9, 1995 Madison, WI
 December 20, 1995 West Allis, WI (MRAC)
 December 16, 1995 Loves Park, IL

Monthly, 1st Sat. Racine, WI
 (except January, July & August)
 Monthly, 1st Sat. Oak Creek, WI (SWAT/MRAC)
 (except May, June, July & August)
 Monthly, 2nd Sat. Madison, WI
 Monthly, 3rd Wed. West Allis, WI (MRAC)
 Monthly, 3rd Sat. Loves Park, IL
 Monthly, Last Sat. Wauwatosa, WI (MRAC)
 (except December)
 Monthly, Last Sat. Tomahawk, WI
 (January thru October only)
 Quarterly Marshfield, WI
 (Second Saturday every third month.)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A

copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES

FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 29¢ SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.90 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)

OAK CREEK, WI (SWAT-MRAC/VEC)

FIRST SATURDAY DATES (No exams June, July or August. May exam on 2nd sat at 1:00 p.m.): 3:30 p.m. at 6560 S. 27th St., Oak Creek, WI. (2 blocks south of College.) (MRAC fee \$5.00)

THIRD WEDNESDAY DATES: At 6:30 p.m. Manor at Park, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): 9:00 a.m. at 7500 W. State St., Wauwatosa S&L, lower level, Wauwatosa, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license, CSCE and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required is \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE

Amateur exams: 1:00 p.m. to 4:00 p.m.

Commercial exams: 9:00 a.m. to 12:00 noon.

Unless otherwise noted at WMVS-TV studios, MATC Downtown campus in the C building. The address is 1036 N. 8th Street, Milwaukee. Enter at the North West entrance of C Building. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

Also available FCC General Radio Telephone Commercial exams. Fees are \$5.90 for the Amateur Radio exams and \$35.00 for the commercial exams.

MADISON, WI

VE exams are held in Madison every second Saturday morning (September through May) of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.90, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appoint-

ments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, NZ9B

RIVER FALLS, WI

Held in the church basement at the United Methodist Church, 127 South 2nd St., River Falls, WI. Contact: Chuck Kelly, KA9YRV, 234 W Cascade Ave., River Falls, WI 54022.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 1182.

APPLETON, WI - ARRL/VEC

MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test session in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Candidates check in between 8 and 9 a.m. with testing starting at 9 a.m. No walk-ins after 9 a.m. Contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967.

MENOMONIE, WI

The Menomonie VEC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonie, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave., in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WBOKIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

GREEN BAY, WI (ARRL/VEC)

Contact N9NOF, Keith Summers, 918 Bluebird St., De Pere, WI 54115. (414) 336-6087, after 4:00 p.m.

KAUKAUNA, WI - SWAPFEST

MANITOWOC, WI, LAKESHORE HAMFEST

RACINE, WI - BIG BOY TOY SHOW

RHINELANDER, WI - NWARC SWAPFEST

STEVENS POINT, WI - CWRA SWAPFEST

WAUKESHA, WI - KMRA SWAPFEST

WAUKESHA, WI - MIDWINTER SWAPFEST

EAU CLAIRE, WI - ECARC HAMFEST

SOUTH MILWAUKEE, WI - SMARC HAMFEST

CEDARBURG, WI - ORC HAMFEST

ROCKFORD, IL - RARC HAMFEST

See the Swapfest column for additional information and contact persons.

GREAT RIVER AMATEUR RADIO CLUB

DUBUQUE, IOWA - ARRL/VEC

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central (continued on page 15)

Wisconsin Nets Association Ltd.

Art Evans, KA9KLZ, Secretary • 213 North Jefferson • Cuba City, WI 53807

Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Wisconsin has 9,641 amateurs, 2,460 ARRL members, and a population of 5,083,000. Please let your friends know about League membership benefits and encourage them to join too. Congratulations to Beloit ARC for being ARRL affiliated for 25 years.

Welcome to new Dodge County EC WB9ADB and thanks to incumbent KA9FNE for many years of service. RRRC chose KA9FNE as their Ham of the Year, and has started new rag chew net on 1.9 MHz Tuesdays at 8 p.m.

New coordinated repeaters: Bluff Siding 146.235/146.835 MHz, Fond du Lac 147.885/147.285 MHz and Oshkosh 448.45/443.45 MHz. For info about Wisconsin Association of Repeater contact Frequency Coordinator WB0WOT in Beldenville.

Wisconsin Nets

Net	WNA	Freq.	UTC	CST	Mgr.
BWN	Yes	3985	1200	0600	W9AYK
BEN	Yes	3985	1800	1200	KE9VU
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	0000	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	0030	1830	NS9Q
(Rhinelander area)					
RCRA	No	01/61	0030	1830	KA9OMC
(Mondays CST) (Menomonie Area)					
Gr. Bay	No	72/12	0245	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0200	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1400	0800	WA9OAY
(LSB Sunday)					

The QCWA phone contest is March 11 and 12. Exams: March 4 Racine, March 11 Madison, Marshfield, Oak Creek; March 15 West Allis; March 25 Menomonie, Tomahawk, Wauwatosa. Add these items to your calendar: Contact your local Explorer Post and encourage scouts to pursue their interests in AR. Form delegation for Dayton

Hamfest. Arrange for publicity for Field Day. Plan graduation party for spring license graduates. Contact your town officials and offer communications assistance for spring marathons, races, parades and special events. Inform your club of communication opportunities.

Let me know if you would like a free list of 111 Wisconsin nets or 95 clubs.

Thought for the month: *The radio you want is never the one on sale.* □

Net News and Gossip

Wisconsin Intrastate Net/Late

Ed Rice, W9NGP, Net Manager
W126 Lang Road
Oconomowoc, WI 53066

Here are some totals for 1994:

Total number of checkins 1866
Total messages offered 592
Total messages cleared 386
Total minutes in session 4019

Stations with leading performance:

Most checkins N9BDL
Most times net control N9BDL
Most 9th Region rep W9CBE

My thanks go to N9CKC and N9KHD for accepting extra responsibility when I needed them. *Let's look forward to another good year in 1995.*

73, Ed

KA9FNE Retires as Dodge County EC; Honored by Club



Arnie Zietlow, KA9FNE (left), is shown reading the inscription on his Ham of the Year plaque, awarded to him by the Rock River Radio Club. The plaque was presented by last year's Ham of the Year recipient, Jack Klein, W9YOA, at right.

- Photo courtesy Duane Haas/W9BCV

Arnie Zietlow, KA9FNE, has resigned as Emergency Coordinator for Dodge County after many years of faithful service. John Leekley, WB9SMM, Wisconsin Emergency Coordinator, sent the following letter to Arnie:

"Dear Arnie:

Please turn to page 6

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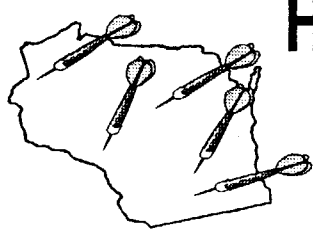
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HERE and THERE

RS-15 Launch a First; Satellite is on the Air and Operating

On December 26 at 0300 UTC, the Russian RS-15 satellite was launched from the Baikonur space center in Russia. The satellite was lofted into space by a "Rokot" launch vehicle. Rokot is a hybrid created from the first and second stages of an SS-19 intercontinental ballistic missile and a new third-stage booster known as "Briz."

RS-15 is only the second Amateur Radio satellite to include Mode A capability (the other is RS-10). The satellite is already operating and several hams report successful contacts.

RS-15 transponder frequencies:

Uplink: 145.858 to 145.898 MHz
Downlink: 29.354 to 29.394 MHz
CW Beacon 1: 29352.5 kHz
CW Beacon 2: 29398.7 kHz

Modes are CW and SSB only.

The RS-15 command station invites signal reports and comments:

RS3A, P.O. Box 59, Moscow 105122, Russia

Internet e-mail: rsgroup@olymp.msk.su

Packet: RS3A@RS3A.MSK.RUS.EU

The recently launched RS-15 Russian satellite was sent aloft on the first successful test flight of a new launch vehicle.

RS-15 was the only passenger on the new "ROKOT" rocket, a joint commercial venture between Germany and Russia. ROKOT is described as a low cost launcher for small satellites into low-earth and sun-synchronous orbits and will be available for commercial launches by the end of 1996, according to Peter Guelzow, of AMSAT-DL.

ROKOT may also offer economical launch opportunities for Amateur Radio satellites and experiments, Guelzow said, and the "user's manual" for ROKOT will be made available to AMSAT-DL, he said.

RS-15 is now operational; Keplerian data is available on W1AW.

- ARRL Bulletin ALS002, 1/13/95
and ARLS03, 12/27/94

Clinton, Gore and Hundt Laud Hams in January CQ

President Bill Clinton, Vice President Al Gore and Federal Communications Commission Chairman Reed E. Hundt all praise Amateur Radio in messages published in the January, 1995, issue of CQ, the magazine's Golden Anniversary issue. The following quotes are excerpts from their messages.

President Clinton: "Since its inception, Amateur

Radio has been far more than a hobby for its users. It is a way to communicate with people across international boundaries and cultures, to express ideas and share opinions, and to make new friends."

Vice President Gore: "As technical innovators and scientific leaders, 'ham' radio operators are already working hard to build the national Information Infrastructure - a seamless web of communication networks that will forever change the way we live, learn, work and communicate with each other."

FCC Chairman Hundt: "Many scientists, engineers, astronauts and technicians took their first steps toward their careers when they became amateur operators." The Amateur Service not only provides an enjoyable activity for technically-inclined persons, but also plays a vital role during times of disaster Amateur operators are always on the very cutting edge of communication technology. Over the past half century, "CQ" has faithfully chronicled for its readers the valuable contributions of our amateur operators."

The letters from Clinton, Gore and Hundt are part of a 72-page special anniversary section in the January CQ, which also includes articles on ham radio history, world and technological history and highlights in CQ's history. The issue was available on newsstands by late December. Single copies may be special-ordered at (800) 853-9797.

- Westlink Report, 1/1/95

From our humble publication, we also add our congratulations to CQ on their 50th birthday. That issue was a very special one, indeed. May CQ continue for 50 more years - and a lot more.

- BSSS editor

FCC Call Sign Update

The following is a list of the FCC's most recently issued call signs as of January 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0VB	KG0SL	++	KB0QDK
1	AA1LQ	KD1YQ	N1TYE	KB1BMP
2	AA2VD	KF2ZP	++	KB2SZC
3	AA3JO	KE3QT	N3UDE	KB3BGA
4	AE4BG	KS4KC	++	KE4UEJ
5	AB5ZL	KK5HL	++	KC5LSC
6	AC6IR	KO6NL	++	KE6PQB
7	AB7HD	KJ7HC	++	KC7HWL
8	AA8RS	KG8NW	++	KB8WEE
9	AA9NM	KF9ZO	N9ZQK	KB9JCB
N. Mariana	KH0O	++	KH0DP	++
Guam	WH2J	AH2CZ	KH2LP	++
Midway	++	AH4AA	KH4AG	WH4AAH
Hawaii	++	AH6NS	WH6ZY	WH6CRY
Amer. Samoa	AH8M	AH8AH	KH8BJ	WH8ABB
Alaska	++	AL7PW	WL7ZY	WL7CJD
Virgin Is.	WP2Q	KP2CD	NP2HV	WP2AHV
Puerto Rico	++	KP4YH	++	WP4MVN

++ All call signs in this group have been issued in this area.

- ARRL Bulletin ARLB003, 1/18/94

Westlink Report Passes into History

After 13 years and 330 issues, Westlink Report ceased publication with its January 1, 1995, issue. Westlink Report began as HR (Ham Radio) Report in January 1974, written by Joe Schroeder, W9-JUV, and published by Ham Radio magazine (now

Silent Keys

Aldrich (Al) C. Krones, K9AA, Milwaukee, died on December 16, 1994. Aldrich, who was a radio operator for the Milwaukee Police Department for 44 years and an Amateur Radio operator for 70 years, was a member of the Milwaukee Radio Amateurs' Club since 1931. Memorials to the Wisconsin Humane Society appreciated.

- Hamateur Chatter, December 1994/January 1995

Harold (Hal) Hulterstrum, N9MMG, 72, Baraboo, died December 23, 1994. He worked as a design engineer for Flambeau Plastics Corporation, and had his own consulting plastics business, Plastic/Think. He held numerous foreign and domestic patents for his designs and received the Gulf Inventors Award in 1974. He was also a musician, and played in Professor Stich's original Baraboo Circus Band which plays in the Milwaukee Circus Parades.

- Condensed from the NewsRepublic, Baraboo, WI

also defunct). Schroeder's 357 issues, followed by 330 written and published by Burt Hicks, WB6-MQV, must set some sort of record for these things.

Hicks sometimes editorialized in Westlink Report, as well as providing an outlet for the opinions of guest editorialists and writers. In his final issue, Hicks praised ARRL President George Wilson, W3OYI, and reaffirmed his (Hicks') long-standing policy of generally saying positive things about the American Radio Relay League. Hicks in particular the last few years has supported ARRL efforts to encourage stronger enforcement by the FCC of its rules.

Hicks invested much of his own funds in Westlink Report, which was on several occasions kept afloat by anonymous financial support from readers.

Remaining subscriptions will be fulfilled by Worldradio.

- The ARRL Letter, 1/12/94

Thanks for all your hard work and dedication, Burt. We know what it's like!

- BSSS editor

Bulletin Hoax: Notice of False W1AW/ARRL Special Bulletin

A message purporting to be official W1AW Bulletin ARLX004 falsely claimed that the American Radio Relay League, ARRL, plans to petition the Federal Communications Commission, FCC, to drop all Morse code requirements for Amateur Radio licenses in the U.S. An authentic ARRL Bulletin apparently was altered and re-posted on an internet news group as a practical joke. The League plans no such petition. The actual bulletin ARLX004 concerned a balloon launch from Iowa. The League views any dissemination of forged messages as an extremely serious matter.

- ARRL Bulletin ARLB005, 1/20/95



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Send this form, with your check or money order, to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo, WI 53913-0337. Please do NOT send cash!

February 1995

The Computer Corner

By Stan Kaplan, WB9RQR
11541 North Laguna Drive
Mequon, WI 53092-3119

Time before last, we considered memory. Remember? (Pun intended!) I pointed out that a hard or floppy disk is non-volatile memory, since anything written to these devices remains there after the power is turned off, providing everything goes as it should. Your computer's RAM (Random Access Memory) is different, however. Anything stored in it goes away to never-never land when that power switch is turned off. However, RAM is very necessary, because it is really the "scratch pad" for all your work, as well as the programs that allow you to work. Let me illustrate this with an everyday example.

Suppose your computer has a hard drive, and last week, you started a letter to the ARRL. Today, you intend to finish it. You sit down at the keyboard, turn on the power, and wait for a few moments while your machine boots up. Then you change to your LETTERS subdirectory and use the DIR command to confirm that the letter you started, named ARRL.195, is still there. Next, you start your word processor and open the letter, which promptly appears on your screen.

What significant steps have occurred? When you started your word processor, most of the instruc-

tions in the word processing program were read from the hard drive and moved into RAM, where they take over most of the interpretation of your keystrokes. Then, when you opened ARRL.195, the letter was read from the hard drive and an exact copy was made in RAM, but in an area of RAM different from the word processor. What you see on the screen is an exact copy of your letter as found on the disk, and another exact copy is now in memory.

Let us suppose that, after reading what you wrote last week, you decide it is fine and no changes are necessary. All you need to do is to add the closing, so you type the following 16 characters: "Sincerely yours", and you save the letter.

Your keystrokes were sensed and acted on by your word processing program, acting in concert with your computer's operating system (the latter also resides in RAM, in another remote spot). These two are like Siamese twins, joined at the brain, so we will nickname the pair WP-OS. As you typed the character S in Sincerely, WP-OS did two things. First, they were "watching" the keyboard in case you typed something, which you did. When they saw the S typed, they moved the S (actually, its numeric representation) into RAM. Second, they echoed the S to your screen. They accomplished those two steps pretty quickly; both steps were finished when the S appeared on your screen. (Note carefully, however, that WP-OS did absolutely nothing to the hard drive, which you can prove to yourself by watching the LED while typing - it will not light up.) The same thing was repeated for the i, then the n, and each of the characters. In each case, the character was added to the copy of

the letter in RAM and also echoed to your screen.

Then, you saved the letter. For the first time, WP-OS "talked" to the hard drive. What did they say? Assuming your word processing program works like most do, here is the conversation, with WP-OS = the word processor working in concert with the operating system, and HD = Mr. Hard Drive:

WP-OS: Mr. Hard Drive, take the copy of ARRL.195 you have written on your platters, and rename it ARRL.BAK. [The hard drive complies, and it also lights its LED while doing so, indicating it is active.]

HD: OK, Boss, I did it!

WP-OS: Good guy. Now, take this data I am about to send you, write it to your platters, and name it ARRL.195.

HD: Right, Boss, send it down. Got it! There, I'm all done.

That is the way it works. Now you can understand that those .BAK files your word processor keeps creating represent a copy of your work BEFORE your last edit. You can also see why, if you turn off the computer before saving your work on hard disk or floppy, you are out of luck. Until you give the command to save your work to disk, that data resides only in one place - in RAM, and RAM is terribly volatile. How volatile?

A RAM chip, so long as it is fed power, acts like a bank of capacitors. Some capacitors are charged (representing ones) and some are not (representing zeroes). However, these chips are really forgetful. EVEN IF THEY HAVE PLENTY OF POWER, THEY WILL LOSE THEIR MEMORY (zeroes stay zeroes, but the ones also become zeroes) WITHIN ABOUT 4 MILLISECONDS! So, the engineers have designed circuitry within the computer to refresh the charges (or lack of them) about every 3.8 milliseconds. Think about that next time you are editing a critical file, and don't have a backup!

See you next time. By the way, I am writing this on 27 December, so my best wishes to you and your family for a happy, healthy and prosperous 1995! □

Reprinted, by permission, from the ORC Newsletter, Ozaukee Radio Club, P.O. Box 13, Port Washington, Wisconsin 53074 (Ray Meyer, N9PBY, Editor). □

KA9FNE Retires as EC, is Honored

Continued from page 4

"It is with considerable regret that I accept your resignation as Emergency Coordinator for Dodge County. I looked in the file to see how far back you went. The file doesn't go back that far, so I have no idea how many years you've served, but I do know it has been as long as I have been active in ARES. Your services will be surely missed. At your suggestion, I am appointing Dale Marks, WB9-ADB, as your successor, and I am sending him the appropriate paperwork. Again, thank you for all the help, and I hope you will continue to be active both in normal ARES activities and also as a mentor to Dale. 73, John"

Arnie was recommended for the position of EC by now Silent Key Redd Beneditz, W9IZG, and was appointed by then-Section Manager Roy Pedersen, K9FHI. Arnie worked directly with Jerry Witte (Director of Dodge County Emergency Government) and the Rock River Radio Club.

Arnie was presented with letters of commendation from ARRL President George Wilson III, W4OYI, and from Leroy E. Connors, Jr., Administrator, Wisconsin Division of Emergency Government.

- Duane Haas/W9BCV

23rd
Annual

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1995 WISCONSIN QSO PARTY

1800Z March 12 - 0100Z March 13, 1995

(12 Noon until 7 p.m. CST March 12)



Sponsored by the West Allis Radio Amateur Club, P.O. Box 1072, Milwaukee, WI 53201

The 1995 Wisconsin QSO Party is scheduled to begin at 12 noon CST (1800Z) SUNDAY March 12, and run until 7 PM Sunday (0100Z March 13). This annual 7-hour event is sponsored by the West Allis Radio Amateur Club (WARAC). The entry form printed in this issue of *BSSS* can be used, you may copy the entry form from your packet BBS, or you may send to our post office box for one.

We have made two changes this year. We are adding an **AWARD** for the **HIGHEST SINGLE OPERATOR** score, from a **NON-WISCONSIN** entry. It will be a plaque, similar to the one presented to the **HIGHEST SINGLE OPERATOR SCORE** from a **WISCONSIN-ONLY** entry. Any **SINGLE OPERATOR** entry from any State, Country or Canadian Province is eligible.

The second change is a bit unusual. Last year, Scott, KA9FOX, put out a challenge that he would buy a pound of Wisconsin cheese for the top out-of-state entry. A number of stations entered the WQP, apparently "going for the cheese." We thought that was a great idea. We asked Scott if we could "steal" his idea, and make it part of the Awards - sort of like "win the WQP and enjoy a taste of Wisconsin." So this year, we added a twist - the **HIGHEST SINGLE OPERATOR WISCONSIN-ONLY SCORE** and the **HIGHEST SINGLE OPERATOR NON-WISCONSIN SCORE** have the option of receiving an **ENGRAVED PLAQUE - OR - a TASTE OF WISCONSIN**.

We feel these two changes will further enhance our very popular 7 hour annual event.

Last year we had 178 entries in WQP, representing 116 Wisconsin stations, one from Argentina, five from Canada and 56 from the rest of the USA.

Many stations do not send in their logs. Judging from the information in the logs we received, we had 70 Wisconsin Counties represented, all 50 States and 11 Canadian Provinces, as well as some DX. A lot of those not sending in entries would probably have won their State or Province if they had. **WE ENCOURAGE ALL PARTICIPANTS TO ENTER**, even if you only work a few stations.

We altered the **FREQUENCIES** listing to include VHF, including other modes on VHF. The list is as complete as we can make it if you realize there are only so many spaces available on the form across the page. It is intended as a generic type list. We do not intend to exclude anyone, any band or any mode.

We have created a separate listing of "suggested" County, State and Canadian Province abbreviations. It is on the next page. If you wish, you may request one via our Post Office Box or via your packet BBS. Incidentally, we do have log sheets for WQP for those who do not use a computer for logging. These are also available via our Post Office Box.

For those who are new to the contest and use computer logging (and I guess it also applies to those who do paper logs), we suggest that when working a mobile station, please log them showing their call-sign slash the 3 letter abbreviation for the County they are in, i.e. K9-DZG/COL, K9DZG/SAU, K9-DZG/DAN - which should work with most logging/duping programs. That way, when you work him a second time in another county, the program should not become confused, and tell you he is a dupe. If you need to beat a record, we present the standing records:

SINGLE OP FIXED - by W0AIH, operated by KA9FOX in 1994 with

89600 points

SINGLE OP MOBILE - by NA9D in 1986 with 86684 points

SINGLE OP NOVICE - by WD9-EGC in 1991 with 15238 points

SINGLE OP TECH - by N9NUN in 1993 with 8400 points

MULTI OP FIXED - by KB9S in 1991 with 64916 points

MULTI OP MOBILE - by NZ9Z in 1991 with 24118 points

MULTI MULTI FIXED - by K9EC in 1986 with 162673 points

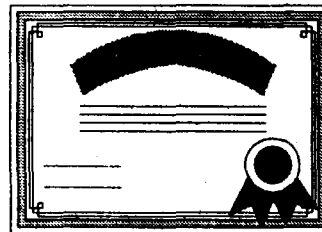
MULTI MULTI MOBILE - by N9EZ in 1985 with 74530 points

MULTI MULTI TECH - by N9PAY in 1993 with 330 points

Continued on
page 8

Worked All Wisconsin Counties Award Available Soon

The West Allis Radio Amateur Club will soon be offering an award for working



all 72 Wisconsin counties. The starting date and time for qualifying contacts is the same as the date and time of the start of the 1995 Wisconsin QSO Party. Full details of the award are still being worked out, and more details will be published in a future issue of *BSSS*.

1995 WISCONSIN QSO PARTY RULES

DATE/TIME: 1800Z MARCH 12 - 0100Z MARCH 13, 1995

MODES: CW and Phone. All stations may be worked once per mode on each band. In addition, mobiles may be worked once per mode per Wisconsin county that they operate from. **No Repeater QSOs.**

ENTRY CLASSES:

Single Operator Fixed	Multi Operator Fixed	Multi Xmtr/Multi Op Fixed
Single Operator Mobile	Multi Operator Mobile	Multi Xmtr/Multi Op Mobile
Single Operator Novice	Multi Operator Novice	Multi Xmtr/Multi Op Novice
Single Operator Tech	Multi Operator Tech	Multi Xmtr/Multi Op Tech

EXCHANGE: Wisconsin stations send county.
Non-Wisconsin stations send state or province or country.

FREQUENCIES: CW: 3550, 3705, 7050, 7125, 14050, 15M CW, 10M CW, 6M CW, 2M CW ** Suggested **
Phone: 3890, 7230, 14290, 21350, 28400, 6M SSB & FM, 2M SSB & FM Others may be used

SCORING: Phone contacts count 1 QSO Point; CW contacts count 2 QSO Points.
WISCONSIN STATIONS: Multiply the sum of QSO points by the sum of Wisconsin counties (max. 72), plus states (max. 50) plus Canadian provinces (max. 13) worked. Note: DX countries worked count for QSO points but not as multipliers.
NON-WISCONSIN STATIONS: Multiply the sum of QSO points by the number of Wisconsin counties worked (max. 72).

BONUS: **WISCONSIN MOBILES/PORTABLES:** Add 500 bonus points for each county that you operate from, outside your home county, with a minimum of 15 QSOs per county to qualify.

LOGS: Entries must contain a log consisting of: Time (GMT), call, band, state/province, Wisconsin county, mode and a complete Score Summary including YOUR name, address and call. Circle new multipliers as worked. Logs containing more than 200 QSOs must be accompanied by a dupe sheet (separate dupe sheet for each mode). Mobile entries must indicate county changes in log.

Entries must be postmarked by **March 31, 1995** and sent to:

**WISCONSIN QSO PARTY
WEST ALLIS RADIO AMATEUR CLUB
P. O. BOX 1072
MILWAUKEE, WI 53201**

AWARDS:

NON-WISCONSIN: Awards will be presented to the following:

- Highest single operator score in the QSO Party.
- Highest single operator score in each single operator category in each state/province.

WISCONSIN: Awards will be presented to the following:

- Highest single operator score in the QSO Party.
- 10 highest single operator scores in each entry class.
- Highest multi-operator score in each entry class.
- Highest aggregate club score (club member stations to be located within 50 miles of the club, except for mobiles).

WISCONSIN COUNTIES				STATES			CANADIAN PROVINCES
ADAMS	FLORENCE	MARATHON	RUSK	ALABAMA	LOUISIANA	OHIO	ALBERTA
ASHLAND	FOND DU LAC	MARINETTE	SAUK	ALASKA	MARYLAND (D.C.)	OKLAHOMA	BRITISH COLUMBIA
BARRON	FOREST	MARQUETTE	SAUYER	ARIZONA	MASSACHUSETTS	OREGON	LABRADOR
BAYFIELD	GRANT	MENOMINEE	SHAWANO	ARKANSAS	MAINE	PENNSYLVANIA	MANITOBA
BROWN	GREEN	MILWAUKEE	SHEBOYGAN	CALIFORNIA	MICHIGAN	RHODE ISLAND	NEW BRUNSWICK
BUFFALO	GREEN LAKE	MONROE	ST. CROIX	COLORADO	MINNESOTA	SOUTH CAROLINA	NEWFOUNDLAND
BURNETT	IOWA	OCONTO	TAYLOR	CONNECTICUT	MISSISSIPPI	SOUTH DAKOTA	NORTHWEST TERRITORIES
CALUMET	IRON	ONEIDA	TREMPEALEAU	DELAWARE	MISSOURI	TENNESSEE	NOVA SCOTIA
CHIPPewa	JACKSON	OUTAGAMIE	VERNON	FLORIDA	MONTANA	TEXAS	ONTARIO
CLARK	JEFFERSON	OZAUKEE	VILAS	GEORGIA	NEBRASKA	UTAH	PRINCE EDWARD ISLAND
COLUMBIA	JUNEAU	PEPIN	WALWORTH	HAWAII	NEVADA	VERMONT	QUEBEC
CRAWFORD	KENOSHA	PIERCE	WASHBURN	IOWA	NEW HAMPSHIRE	VIRGINIA	SASKATCHEWAN
DANE	KEWAUNEE	POLK	WASHINGTON	IDAHO	NEW JERSEY	WASHINGTON	YUKON TERRITORY
DODGE	LA CROSSE	PORTAGE	WAUKESHA	ILLINOIS	NEW MEXICO	WEST VIRGINIA	
DOOR	LAFAYETTE	PRICE	WAUPACA	INDIANA	NEW YORK	WISCONSIN	
DOUGLAS	LANGLADE	RACINE	WAUSHARA	KANSAS	NORTH CAROLINA	WYOMING	
DUNN	LINCOLN	RICHLAND	WINNEBAGO	KENTUCKY	NORTH DAKOTA		
EAU CLAIRE	MANITOWOC	ROCK	WOOD				

1995 WQP SUGGESTED ABBREVIATIONS

WISCONSIN COUNTIES ADA adams FLO florence MAR marathon RUS rusk ASH ashland FON fond du lac MRN marinette SAU sauk BAR barron FOR forest MRQ marquette SAW sawyer BAY bayfield GRA grant MEN menominee SHA shawano BRO brown GRE green MIL milwaukee SHE sheboygan BUF buffalo GRL green lake MON monroe STC st croix BUR burnett IOW iowa OCO oconto	TAY taylor CAL calumet IRO iron ONE oneida TRE trempealeau CHI chippewa JAC jackson OUT outagamie VER vernon CLA clark JEF jefferson OZA ozaukee VIL vilas COL columbia JUN juneau PEP pepin WAL walworth CRA crawford KEN kenosha PIE pierce WSB washburn DAN dane KEW kewaunee POL polk WAS washington DOD dodge LAC la crosse POR portage WAU waukesha DOO door	LAY lafayette PRI price WAP waupaca DOU douglas LAN langlade RAC racine WSR waushara DUN dunn LIN lincoln RIC richland WIN winnebago EAU eau claire MAN manitowoc ROC rock WOO wood CANADIAN PROVINCES ALB alberta NEW newfoundland PEI prince edward island BC british columbia NWT northwest territory QUE quebec LAB labrador NS nova scotia	SAS saskatchewan MAN manitoba ONT ontario YT yukon territory NB new brunswick STATES AL alabama LA louisiana OH ohio AK alaska MD maryland (D.C.) OK oklahoma AZ arizona MA massachusetts OR oregon AR arkansas ME maine PA pennsylvania CA california MI michigan RI rhode island CO colorado MN minnesota SC south carolina CT connecticut MS mississippi SD south dakota	DE delaware MO missouri TN tennessee FL florida MT montana TX texas GA georgia NE nebraska UT utah HI hawaii NV nevada VT vermont IA iowa NH new hampshire VA virginia ID idaho NJ new jersey WA washington IL illinois NM new mexico WV west virginia IN indiana NY new york WI wisconsin KS kansas NC north carolina WY wyoming KY kentucky ND north dakota
---	--	--	---	--

1995 WISCONSIN QSO PARTY SCORE SUMMARY SHEET

Name _____ Call _____

Address _____

City _____ State/Province _____ Zip _____

Home WI County _____ Club Affiliation _____

ENTRY CLASS: ___ Single Op Fixed ___ Multi Op Fixed ___ Multi-Multi Fixed

 ___ Single Op Mobile ___ Multi Op Mobile ___ Multi-Multi Mobile

 ___ Single Op Novice ___ Multi Op Novice ___ Multi-Multi Novice

 ___ Single Op Tech ___ Multi Op Tech ___ Multi-Multi Tech

WI Counties Worked From _____

SCORING: CW QSOs _____ x 2 = _____ CW Points

Phone QSOs _____ x 1 = _____ Phone Points

Sum of CW + Phone Points = _____ QSO Points

Number of Multipliers = _____ Multipliers

Wis. Counties (Max. 72) _____

States (Max. 50) _____

Provinces (Max. 13) _____

QSO Points x Multipliers = _____ Points

Bonus Points = _____ Points

Final Score = _____ Points

I have read & followed the WISCONSIN QSO PARTY RULES to the best of my knowledge. (All OPERATORS must sign.)

Signature(s) _____

Date _____

To qualify, entries must be postmarked by March 31, 1995 and sent to: 1995 WISCONSIN QSO PARTY, WEST ALLIS RADIO AMATEUR CLUB, P. O. BOX 1072, MILWAUKEE, WI 53201. Entries may be disqualified if the QSO Party Rules are not followed. The decision of the Wisconsin QSO Party Rules Committee shall be final. Results will be published in *Badger State Smoke Signals* which will be sent to all entrants.

OUT OF STATE ENTRY - by AC9C in 1991 with 23085 points

CLUB ENTRY - by Greater Rice Lake Contest Club in 1986 with 540970 points.

The Wisconsin QSO Party is open to all licensed amateurs. The contest is fun for everyone, whether a veteran contester or casual operator. Give the Novices contacts, too. Be sure to get on CW, so the out-of-state stations have a better opportunity to work Wisconsin. Listen for the weaker signals, which will probably be the mobiles, working hard to provide you with the rare counties and multipliers you might not otherwise get. We encourage photos of your efforts or stations. No SASE's or IRC's are needed. When the results are tabulated, ALL ENTRANTS will receive a copy of *Badger State Smoke Signals*, with the results published inside - FREE.

Entries need to be postmarked by March 31, 1995.

See you the second Sunday of March.

- For WARAC
Lynn Tambllyn, K9KR
Chairman, WQP

About WARAC

In addition to the annual and extremely popular Wisconsin QSO Party, the West Allis Radio Amateur Club also sponsors the original Mid-Winter Swapfest every January at Waukesha, and funds a number of scholarships for radio amateurs to assist them in their college education. And, the club, as noted on page 7, will soon be offering an award for working and confirming contacts with all 72 Wisconsin counties. WARAC recently celebrated its 40th anniversary. *Badger State Smoke Signals* commends and congratulates the West Allis Radio Amateur Club for its many achievements through the years and for its commitment to the futures of young radio amateurs with its scholarship awards. Requirements for those awards will be published in March, 1995 *Badger State Smoke Signals*. To WARAC, we say *well done!*

- BSSS editor and staff

The Quarter Century Wireless Association

By Richard R. Regent, K9GDF

5003 South 26th Street
Milwaukee, WI 53221

If you were first licensed over 25 years ago (it is not necessary to be licensed the entire 25 years) and presently hold a license, you qualify to join the Quarter Century Wireless Association (QCWA).

The idea for such an Association began during a 10-meter round table one Friday night in November, 1947. Six of the members decided they should form an organization of Amateur Radio operators who had been licensed for more than 25 years. A great deal of growth of QCWA has taken place since then, mostly from Chapters which support the activities. Local chapters help everyone to enjoy the fellowship of other old-timers without having to travel long distances to attend meetings. Also, a QCWA memorial scholarship fund assists deserving college students with tuition support.

Over the years there have been 27,095 members around the world, with more joining every day. There are 596 QCWA members in the 9th call area. Wisconsin has about 140 members, many of whom belong to chapters. In Wisconsin there are three Chapters.

Wisconsin Chapter 55, the oldest Wisconsin Chapter, will be meeting on June 1, 1995, at Machut's Supper Club in Two Rivers for their Spring meeting. There is also a Fall meeting in October. The most active members also rag chew on 3985 MHz Sundays at 8:30 a.m. The Chapter 55 Chairman is N9BCX, Vice Chairman KE9JJ, Secretary W9JK and Treasurer W9RZW. Generally about 37 people, which includes several spouses,



attend the dinner before the meeting. W9VQD is frequently auctioneer of donated equipment as part of a special program after meetings.

Southeast Wisconsin Chapter 162 has monthly meetings. Their Annual Picnic is at a member's home and may have delicious roasted sweet corn and watermelon on the menu. On-the-air meetings are on 147.27 MHz Thursdays at 9 p.m. Chapter 162 President is W9OVZ, Vice President N9NBC, Secretary/Treasurer W0WLN. They have met at the South Port Restaurant or Holiday Inn Harborside in Kenosha. Around 30 to 35 attend.

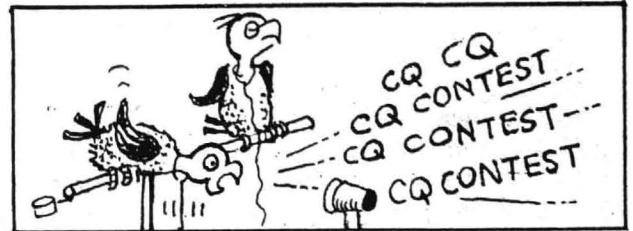
Wisconsin Badger Chapter 174 has semi-annual meetings, usually at the Radio Station Restaurant in Wautoma, and chat on 146.82 MHz Sundays at 4 p.m. Chapter 174 President is K9-CJM, Secretary K9UTQ and temporary Treasurer KA9LAQ. Around 13 folks attend.

Plans are to have a joint meeting of all three chapters this summer. Be sure to get in touch with members to remind them of the proposal and to determine the date and place.

I joined QCWA when I was 39 years old as a Life Member back in 1981. If you are fairly young,

you might save money too by joining as a Life Member, which is now \$225. Otherwise dues are \$15, for one year; \$25, for two years; and \$35, for three years. There is an original registration fee for new members of \$3. A quarterly QCWA Journal has lots of good news. The Winter issue, for example, had meeting notes from all three Wisconsin Chapters. For QCWA membership information write to QCWA, P.O. Box 73, Oklahoma City, OK 73101-0073 or contact any of the chapter officers listed in this article. □

Yak (and Key) it up in the 1995 Wisconsin QSO Party!



NEW PRODUCTS



Icom IC-738 DXers Advantage "Next Generation" HF Transceiver

Work all the HF bands AND receive 300 kHz to 29.995 MHz with Icom's next generation new IC-738 transceiver. SSB, CW, AM and FM are built-in for a full 100 watts output (40 watts in FM). A heat sink with two large cooling fans ensures stable 100% duty cycle operation - great for DXing "marathons."

The IC-738 incorporates next generation circuitry with Icom's unique Direct Digital Synthesizer (DDS) IC. High tech and compact, the PLL unit provides precise frequency resolution to 1 Hz. One complete dial rotation is equal to 200 Hz. You'll experience an analog feeling of the tuning, faster PLL lockup times, improved phase noise blocking, and high dynamic range.

A built-in AT-170 next generation automatic antenna tuner has preset memories for each 100 kHz steps, providing high speed tuning on the HF and six-meter bands. "Automatic retune" turns the AT-170 on and tunes when SWR exceeds 1.5:1. "Through inhibit" permits tuning at SWR conditions up to 3:1 (when your antenna can't be tuned to 1.5:1). "Sensitive/Normal" gives you the choice of

Please turn to page 13



SSB
SELL SWAP BUY

OUR WANT ADS GET RESULTS

FOR SALE: Galaxy RF550 Wattmeter. Excellent condition. \$50.00 plus shipping. Steve Hart, KA9OMC. Phone (715) 665-2374. □



Tri-County Amateur Radio Club Presents: HAMFEST 1995

to be held on
Sunday, March 19
at the
**Jefferson County Fairgrounds
Activity Center**
Hwy. 18 West, Jefferson, WI
from 8:00 A.M. until 2:00 P.M.

Testing — New or Upgrade
Good Food
Door Prizes
Electricity Available
Equipment Test Table (Does it work? Try it out)

A SPECIAL NOTE TO VENDORS:
• Special needs can be handled if we are contacted in advance.
• Vendors will be admitted at 7 a.m. — OTHERS AT 8 A.M. ONLY.
• Vendors — Please unload at northwest side door.
• Vendors only parking will be provided for unloading.
(PLEASE...NO EARLY SALES — Thank you.)

Plate Lunches and Beverage provided by Jefferson County 4-H.

HANDICAP ACCESSIBLE!

TALK IN ON THE 145.49 REPEATER

ADMISSION: \$4.00

6-Foot Table Space — \$5.00 • Some 8-Footers — \$6.00

RESERVE YOUR SPACE EARLY!

SEND YOUR SASE TO: TCARC, W9MQB

213 Frederick, Fort Atkinson, WI 53538

414-563-6381 evenings

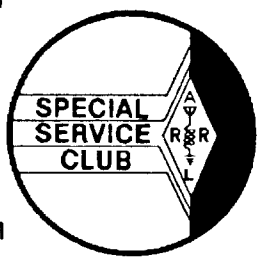
PARTICIPATING CLUBS AND ORGANIZATIONS



Riverland Amateur Radio Club

Tom O'Brien, WB9BJQ
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650



MEETING MINUTES JANUARY 3, 1995

Meeting was called to order at 7:00 p.m.

Minutes of December 6, 1994 meeting were read and approved.

Marc, N9UNW, indicated that there were 92 paid members as of January 3, 1995.

A few opening remarks were made by Ferdz, WU9N.

The names of the committee chairmen were read.

A reminder was also made to pick up unclaimed Christmas gifts.

Volunteers were sought for the coffee run.

Members were reminded to sign up for the January 21 dinner at NOB Hill.

An executive committee meeting will be held on February 4, 1995 at Ardie's restaurant.

Programs: Programs for this year will be handled by Kent, W9LZQ. Any ideas for programs should be forwarded to him.

Swap Fest: Dick, K0JYB, provided a sample flyer for this summer's swapfest. Suggestions for improvements were asked for.

Repeater: Duane, W9HWQ, reported on the problems and repairs of the 97 repeater. Problems were linked to a bad RF amplifier and a bad PL-239 connector. Everything is operational at this time.

Net Manager: Mike, N9LXI, reported that Sunday nets will resume January 8 after a holiday break.

Skywarn/ARES: Kent, W9LZQ, reminded the members about the disaster training from the Red Cross. A session will be January 9, 1995 at 6:30 p.m. at Red Cross building on South Losey. Topic will be Introduction to Disaster Services. A second session will be held January 16. The topic will be Disaster Assessment. Skywarn training has been set for Saturday March 18. A site and time have yet to be determined.

Trailer: No report.

OLD BUSINESS

Dinner will be January 21, 1995 at 6:00 p.m. at NOB Hill. Open to members, spouses and guests.

Bob, N9LZK, reported that the awards have been determined and a ceremony will take place at the dinner.

A discussion about the purchase of a video licensing course was discussed. A pending motion to purchase the tapes was defeated.

NEW BUSINESS

None.

A motion was made and seconded to adjourn at 7:45 p.m.

Eau Claire Amateur Radio Club

Carl Searing, W9NW, Secretary

1129 McKinley Road • Eau Claire, WI 54703

JANUARY 10, 1995 MEETING MINUTES

The meeting was opened by President Kevin Zehr, N90HE. Thirty-eight members and guests were present.

The minutes of the December meeting were read and approved, as was the Treasurer's report, read by Joe Eide, KB9R.

W9NW made an announcement regarding the upcoming Amateur examinations on January 14th, and an appeal was read for volunteers to work communications on the same date for the Cross-country Ski race at the Eau Claire Country Club.

There was discussion of a date for the next Eau Claire Hamfest. No date was decided upon.

N9RSU, Leroy Dick, announced that his new repeater bearing his call is on the air. Its frequency is 444.925 (PL 67.0) and the power is 20 watts. Users are wel-

comed.

Further comments on the subject of local repeaters resulted in a membership vote of \$50 as a donation to the Wisconsin Ass'n of Repeater. Also, Autopatch procedures for both local 2-meter repeaters were analyzed at some length. Both patches will remain "open" for the immediate future.

WU9R and KE9CS volunteered of their own free will and volition to chair a Field Day committee for the 1995 event. Those interested may contact them.

Ideas were requested for future meeting programs, and some work will be done on this. For the February meeting (St. Valentine's Day, Feb. 14), Paul Bittner, W0AIH will show a film on contesting. Lunch committee for that date consists of W9BAR & N0AKC.

Respectfully submitted
by W9NW, Secretary

MAXIM AWARD NOMINATIONS OPEN

Nominations are open for the (\$1000) 1994 Hiram Percy Maxim Memorial Award. If you know a bright, young (under 21) amateur with leadership qualities, nominate her or him through your ARRL section manager (Wisconsin: Richard Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221); other states refer to the list in QST. The deadline is March 31, 1995. Last year's winner was 17-year-old Jonathan M. LeBretton, N1MJM, of Plymouth, Massachusetts.

- The ARRL Letter, 1/12/94

Wisconsin Nets Association Ltd.

WNA ON-THE-AIR-MEETING December 18, 1994

Chairman Wayne Schanke, KE9VU, called the meeting to order on 3985 kHz at 12:30 p.m., December 18, 1994. 16 members and guests checked into the meeting. Checkins are as follows:

KE9VU, KA9KLZ, K9FHI, W9NGT, W9AYK, WB9JSW, K9UTQ, KA9FVX, N9BDL, N9FVN, WB9ICH, W9NGP, NS9Q, KA9BDL, NQ9X AND KB9FA.

The Chairman called for any additions or corrections to the minutes as published in BSSS. With no corrections noted, Wayne called for the approval of the minutes as published. Motion was made and seconded (W9NGT/K9FHI) to approve the minutes. Motion carried. Fred Becker, W9KKM, Treasurer, is in Arizona, so there is no treasurer's report.

OLD BUSINESS

Adrian, KA9FVX, said that he is still looking for someone to take over as net manager for the Wisconsin Novice Net.

Art, KA9KLZ, reported that Dave, N9VPZ, is printing 5 copies of the WNA Manual.

Sherm, W9NGT, reported on Operation Snowshoe. Sherm said that reports of snowfall should include time, place of measurement, and take an average of 3 depth readings. Reports of snowfall ending after the BWN can be given on the BEN or WSSB.

NEW BUSINESS

Art, KA9KLZ, inquired about the possibility of printing some WNA manuals in braille. Lee, N9BDL, said he has the Q signals in braille. Larry, WB9ICH, said that possibly John, WB9ESM, knows of a place in Milwaukee that can braille the manuals. Mike, KA9BHL, said that a ham in Eagle River has a braille, and he will check on it.

Ed, W9NGP, inquired if a new STM had been appointed. Roy, K9FHI, said that there has been no replacement for SK Don Stenz, K9KSA, appointed yet. A volunteer is needed. Roy said he would take reports for December.

ARRL OFFICIAL AND NET MAN- AGER REPORTS

SECTION MANAGER (SM) -- SM Rich Regent, K9GDF was not present.

ASSISTANT SECTION MANAGER (ASM) -- Roy Pedersen, K9FHI, reported that he had little to report. Roy said he had not heard much from Rich lately.

SECTION TRAFFIC MANAGER (STM) -- STM Don Stenz, K9KSA, is a silent key, and a replacement has not been named yet. Roy, K9FHI will take the December reports.

SECTION EMERGENCY COORDINATOR (SEC) -- SEC John Leekley Jr. was not present.

ASSISTANT SECTION EMERGENCY COORDINATOR (ASEC) -- ASEC Sherm Carr, W9NGT, reported that Jim, N9IDH, will soon install packet in the weather office in Sullivan, and then perhaps weather reports can be sent via packet.

BADGER WEATHER NET (BWN) -- BWN N/M Jim Merrill, W9AYK, reported that the net is having trouble in the mornings with poor propagation. The band is completely gone by 6 a.m. and it is after 7 a.m. before it opens. AA0OM, Bill, in Stuttgart, KS, has been relaying a lot of traffic for the net. Traffic is averaging 40-50 pieces per day. Jim, WB9YPY,

demands that the WNA officials straighten out the band. Carl, WB9JSW, the newest BWN delegate remarked that he was honored to be a delegate the BWN.

BADGER EMERGENCY NET (BEN) -- BEN N/M Wayne Schanke, KE9VU, reported that the net is going good with an average of 20 check-ins and 4-5 pieces of traffic per net. Wayne thanked KB9FA and others who have been filling in as net controls. Art, KA9KLZ, BEN delegate, seconded Wayne's remarks.

WISCONSIN SIDEBAND NET (WSBN) -- WSBN N/M Gene Santoski, K9UTQ, reported that the net was going good. Bob, N9UAR, has replaced Ray, K9ANV, as net control and delegate for the winter months. Dick, KB9FA, is a new net control on the WSBN, and it is good to have Dick back into the fold. Also, congratulations to Dick for his recent upgrade to Extra. Gene also urged all to support the new STM when he is appointed. Gene also suggested that the net members generate more traffic.

Roy, K9FHI, WSBN delegate, suggested that the net control stations be sure that the traffic is handled first, before starting second goes.

WISCONSIN NOVICE NET (WNN) -- WNN N/M Adrian Apple, KA9FVX, reported that he is getting some checkins now. KB9GBG has got his radio fixed, and is active again. Adrian says it is nice to see some activity again.

WISCONSIN SLOW SPEED NET (WSSN) -- WSSN N/M Lee Andreas, N9BDL, reports that the net is going steady, 7 days a week with 5-10 checkins and 2 pieces of traffic. Lee reports that Monday is the big night on the net. Lee also urges stricter net discipline on all nets.

WISCONSIN INTRASTATE NET/EARLY (WIN/E) -- WIN/E N/M Larry Guthrie, WB9ICH, reports that checkins are averaging 6 and traffic 2 pieces per net. Larry extends thanks to Lee, N9BDL, for filling in as net control and picking up net reports for him while he is working nights. Larry reported that net control stations are needed on Monday and Friday nights. N9CKC, W9CBE, W9YCV and N9KHD have been doing most of the 9th region work. Larry also reported that band conditions have not been good.

WISCONSIN INTRASTATE NET/LATE (WIN/L) -- WIN/L N/M Ed Rice, W9NGP, reported that there were 1744 checkins and 529 pieces of traffic offered and 365 passed. Ed reported that all net control slots were filled and 9th region represented most of the time. Ed announced that Steve, N9CKC, is the new delegate for WIN/L.

NORTHWOODS TRAFFIC NET (NWTN) -- NWTN N/M Mary Berger, NS9Q, reported checkins are down from 12-13 per net to 8-9 per net. Traffic is about the same. Net times are running 28-30 minutes per net, 7 days a week. Mary says that the net is doing fine.

The Chairman called for further comments. Lee, N9BKL, commented that the band has been going to H-- about 7 p.m. Roy, K9FHI, commented that the 9th region daytime nets are doing very well now. The Chairman called for any visitors to check in, whereupon KB9FA checked in.

Chairman KE9VU set the next WNA on-the-air meeting for March 5, 1995, at 1830Z, following the BEN.

With no further business at hand, the Chairman called for a motion to adjourn. A motion was made and seconded (WB9ICH/K9FHI) to adjourn. Motion carried. The Chairman adjourned the meeting at 1915Z, December 18, 1994.

Respectfully Submitted,
Art Evans, KA9KLZ, WNA Secretary

Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P. O. Box 401 • Abbotsford, WI 54405-0401

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, February 2nd at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Sts., Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or 146.52 MHz simplex.

EXCERPTS FROM MINUTES OF JANUARY 5, 1995 MEETING

Meeting was called to order by President N9GEN. Present were AA9LE, N9UBR, N9FZD, N9GEN, KB9BLV, KA9WDX and N9GHZ.

Minutes of the December 1, 1994 meeting were read by Secretary N9GHZ. Treasurer's report was presented by Treasurer AA9LE.

There was some discussion and critique of the communications for the annual Abbotsford Christmas Parade held on December 3, 1994.

N9GHZ reported receiving a copy of a letter sent by Roland Sacho, Taylor County Office of Emergency Government, to Brent Schaefer, Northcentral Technical College, relating to him some concerns regarding the proposal to share an antenna on the NTC Medford tower between our club repeater and a radio paging service. The letter was dated December 13, 1994. No further information was available at this time and so no further action was taken.

It was reported that the annual Perkinstown P-Town Tramp snowshoe race is scheduled for Saturday, January 21st. We will likely again be providing radio communications for this event.

There was some discussion concerning holding VE exams in the Medford area for 1995. No dates were decided upon at this time and it will be discussed further at next month's meeting.

Elections for 1995 officers were held,

with the following results:

President: N9GEN
Vice-President: KB9BLV
Secretary: N9GHZ, and
Treasurer: KA9WDX.

Meeting was adjourned.

✓ REMINDER

Just a reminder that both club dues and *Badger State Smoke Signals* subscriptions for 1995 are due soon, and can be paid at anytime. Club dues are \$10.00/year and the current (1995) members' portion of the BSSS subscription is \$6.00/year, for those wishing to receive the club newsletter (and BSSS). Checks or money orders should be made payable to: Taylor County Area Amateur Radio Club.

Dues/subscriptions may be paid at any upcoming club meeting, or you can mail them to the current (1995) club treasurer Bernard Jari, KA9WDX, W 3159 Hanley Lane, Medford, WI 54451.

CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

The following individual was inadvertently omitted from the list (in the 1/95 issue of *Smoke Signals*) of Radio Amateurs who assisted in providing communications for the 23rd annual Abbotsford Christmas Parade in Abbotsford, WI on the evening of Saturday, 12/3/94: N9MEH. □

WATTS SNOO



WB9QFW 2-Meter Repeater 146.07.67 and Club Station

P. O. Box 923 • Plover, WI 54467

MINUTES OF MEETING JANUARY 11, 1995

There was no regular meeting of the CWRA this month. The annual Banquet was held at the Sentry World Sports Complex. Happy Hour began at 5:30 and dinner at 7:00. There were 46 people in attendance for this fine gathering. Everyone had a great time and the food was excellent. A job well done for a great banquet. To Scott Jasper, NE9U, for his planning of the banquet.

Our guest speaker for the evening was Rob Baird, W9NN, of our club. Bob kept the audience captivated for an hour and a half with stories of his early days in radio and his days with WGN as an engineer. Bob gave an interesting and entertaining speech. Thank you, Bob!

An award for Member of the Year was given to Jeremiah Maller, N9WBU, for his outstanding efforts in club activities

and fund raising efforts this past year. Jeremiah, who is just 12 years old, went on several occasions to Copps Food Center and sold raffle tickets to people going in and out of the store.

Congratulations to Jeremiah on his award and thank you to him for all his fine efforts!

The next meeting will be held on February 8, 1995 at the UWSP Science Building in room A-109 at 7:30 p.m. The program tentatively scheduled is the VP8-SSI Video, which is about the DXpedition to the South Sandwich Islands, "The Most Horrible Place on Earth."

Correction from last month's minutes: I listed the date of the meeting as November and it should have been December 14, 1994.

Respectfully Submitted:
Mary Eiden, KA9FAS
CWRA Secretary

Mancorad Radio Club

Eric Rugowski, WD9IAB, Secretary

P.O. Box 204 • Manitowoc, WI
54221-0204



2-Meter Repeater: 146.01 Input/146.61 Output

MEETING MINUTES JANUARY 11, 1995

The meeting was called to order at 7:40 p.m. Club Treasurer Glen, AA9MT, read the treasurer's report, and Secretary Eric, WD9IAB, read the minutes of December's meeting. Both were approved as read to the club.

President Barney, N9XER then reminded the meeting attendees about the club's February banquet. This will be held on February 11 at the Cedar Ridge Restaurant in Maribel. The cost is \$8.50 per person, and the meal will be chicken and tenderloin tips. If you are interested in attending, please contact Treasurer Glen, AA9MT.

The meeting attendees were also reminded about the classes in using MS/DOS, and Packet radio commands being offered by Clancy, KB9ECW. They are tentatively scheduled to begin in February. All club members who are interested in taking these classes should get in touch with Clancy.

In preparation for the upcoming tornado/severe weather season that occurs in our area during the summer time, the National Weather Service will once again offer a weather spotting seminar. This will be held in April, at the Manitowoc police and fire department building, on the corner of South 10th and Franklin Streets. In order to have an estimate of the number of attendees, Manitowoc County Emergency Government (who has arranged for the seminars) would appreciate it if club members would indicate if they are going to attend one of the seminars, and if so, which one (during the day, or at night). Club members interested in attending one of these seminars should contact Red, N9GHE, Barney, N9XER, Eric, WD9IAB, or Clancy, KB9ECW.

Ron, WS9X, informed the meeting attendees about the progress of the Novice and Technician licensing classes being held by the club. Classes have gotten off to a good start. Classes are being held on Tuesdays at 6:30 p.m. Twenty people showed up for the first class on January 10, many more than were expected to (fantastic!).

Clancy, KB9ECW, Willie, W9TQV, and Eric, WD9IAB also told the club

about the status of Lincoln High School's future ham station. At the present time, they have a new Yaesu FT-736R all-mode 2M/440 (expandable to include 6M, 222, and 1296 MHz capabilities) transceiver. They also have a packet TNC. Some antenna work still might need to be done. Other than that, it is basically ready for 2M operations. All that the station needs are hams (hopefully, Lincoln High students that are attending the club's licensing classes will fill this need).

Treasurer Glen, AA9MT, also told the club about the status of preparations for the club's May 13 hamfest. Preparations are on schedule.

Red, N9GHE, then informed the club about changes being made to his packet BBS, and LAN. Both will be moving to a new frequency of 145.73 MHz, and the stacking of the system (for faster data transfer) will also be upgraded. The changes should be done by early February.

The meeting adjourned at 8:08 p.m.

One last note - The reporting of the flowers that were sent in sympathy (that was done at last month's meeting), were to express sympathy for the death of Lauretta's (KA9ZTG) sister, not her mother. Please accept my apologies for this error. 73, CU down the log.

Eric Rugowski, WD9IAB
ManCoRad Secretary

Meeting Attendees
January 11, 1995

Jim	N9XCQ
Cheryl	N9XXKX
Terry	N9PZT
Sharline	
Bill	N9XEZ
Dick	N9QFY
Yogi	WN9Q
Mike	KF9YI
Ken	WB9OBX
Lyle	WB9VTM
Conrad	WD9ERM
Janice	N9IQZ
Ron	WS9X
Bob	KB9INK
Red	N9GHE
Jeff	N9XEV

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Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,
Secretary
465 Elder Lane
Allenton, WI 53002-9799



ANNUAL MEMBERSHIP MEETING JANUARY 12, 1995

MINUTES

The Annual meeting of the Washington County Amateur Radio Club was called to order at 7:30 p.m., on Thursday, January 12, 1994, by President N9NBN. There were thirty-four members and two guests attending.

President, N9NBN, gave a review of the club's accomplishments and activities for the year 1994.

The first order of business was the election of officers. The nominating committee had presented a nomination for each office as follows: President, N9LLS; Vice President, W9XT; Secretary, N9LZW; Treasurer, KA9RNU; and Repeater Committee Chairman, W9SIZ. Nominations from the floor included: N9NBN for President and K9GR for Repeater Committee Chairman.

Results of the election were as follows:

President, Walt Gossfeld, N9LLS;
Vice President, Gary Sutcliffe, W9XT;
Secretary, Tom Waldschmidt, N9LZW;
Treasurer, Dave Parkinson, KA9RNU;
and
Repeater Committee Chairman, Don Woelz, K9GR.

With newly installed officers, the

meeting continued with the reading of the minutes and treasurer's reports. These were approved and accepted with the correction of one member's call in the minutes.

Sherm, W9NGT, moved to approve the amendments to the Constitution and Bylaws as published in a newsletter and presented at the December 1994 meeting. Seconded by Neal, WA9WYI. Motion carried by unanimous vote.

Don, K9GR, moved to amend Article 5, Section B of the Constitution to read: "Final motion to adopt or reject shall be at the next scheduled meeting after its presentation. Adoption of amendments shall be by a two thirds (2/3) majority or the accredited voting members of the club, and shall be in effect immediately upon adoption." Seconded by Joel, K9MLD. This was the first reading of this motion, and there was a unanimous decision to vote on it at the next scheduled meeting, February 9, 1995.

Repeater Committee Report was given by Don, K9GR. He estimated that the 146.73 repeater would be operating at its new site in about two months.

ARES report was given by Tom, N9LZW. Tom notified members of a workshop on Disaster Assessment and Documentation that will be held in the

Please turn to page 12



SHEBOYGAN County Amateur Radio Club

Mike Musiel, KF9SJ, Secretary
N9001 Dairyland Rd., Cleveland, WI 53015

The January 10, 1995 meeting of the Sheboygan County Amateur Radio Club was called to order by Steve, KF9KZ. The SCARC meets at the Red Cross Building, 2032 Erie Ave., Sheboygan WI at 7 p.m. on the second and fourth Tuesday of each month. There will be no formal meeting in February, see SCARC Calendar.

NETS

I have managed to leave out one of the long standing informal nets of the SCARC. So with my apologies, I will list it first.

Monday Night 10 Meter Fun Net. Meets around 7:30 p.m., generally following the 2 meter net. The frequency is 28.350 MHz, USB.

Sunday Morning Coffee Clutch, 75 Meters. Meets at 8 a.m. local time around 3.860 MHz (LSB). Tune up or down slightly and listen for the net.

Sunday Night Packet Net. Meets at 6:30 p.m. local time. Connect to WISHEL (NF9R-8, 144.99 MHz, 1200 baud), then connect to SHEBBS. Once logged into the BBS, enter the conference mode by typing C <enter>.

Monday Night Fun Net. Meets at 7 p.m. local time on 147.06 MHz (+107.2PL). All Hams with a Technician class or higher Amateur Radio license are welcome to check in.

MEETING SUMMARY

There was no business meeting held in December, and there is no pending club business to report. The January meeting featured both Home Brew Night, and the viewing of the Field Day Video. Steve,

KF9KZ, and Tom, AA9BJ, brought in some of their home construction projects. After the snack break, the group settled down to watch the famed Field Day Video of 1994. The video provided much amusement for those present, and got the group thinking of preparations for the 1995 Field Day. This year, the club has use of Taylor Park starting Friday the 23rd of June. We will be setting up camp on Friday night. This could lead to some operator fatigue before Field Day even begins. (HI HI). All are welcome to participate or visit during the weekend. Contact Penny, N9TCF, for operator sign up.

Members of the club met on Saturday the 14th for a fox hunt. Joe, N9REH, was the fox, and 3 teams set out to find the transmitter. Charlie, N9SVV, Chris, N9VKC, and Steve, KF9KZ, were the team that found the fox in the least amount of time. Thanks to all that participated, including Josh, N9YLR, Lee, N9YLS, Kurt, N9ZMO, and Penny, N9TCF.

ANNOUNCEMENTS

It's probably not too late to attend the Club Banquet for the 94/95 season. It will be held at Klemme's Wagon Wheel on Friday February 17, 1995. Cost is \$25.00 / Couple, \$12.50 / Single. Contact Steve, KF9KZ, for reservations.

SCARC CALENDAR

Feb. 17: 1994/1995 SCARC Banquet.
March 14: Next Regular Club Meeting.

Submitted by Mike Musiel, KF9SJ,
Secretary

Washington County Amateur Radio Club

Continued from page 11

Washington County Sheriff's Dept training room on Thursday, February 16, from 1 to 4 p.m. This workshop is being presented jointly by the Washington County and State of Wisconsin Emergency Government offices.

N9LZW handed out a survey questionnaire to the membership. The ARRL has asked clubs to survey their membership regarding interference problems.

N9LZW also handed out information on using the 146.670 repeater's emergency autopatch. Club members are welcome to use it if they need to.

Marty, WD9BCV, made a motion to vote for a Repeater Trustee at this meeting. Seconded by Don, K9GR. Those seeking nomination and announced by the nominating committee were: K9GR, N9LZW, WD9BCV, and K9MLD. Nominated from the floor was W9SIZ. Neil, WA9WYI, moved to close nominations. Seconded by Keith, KY9P. A vote by ballot was taken and the result was N9LZW for Repeater Trustee.

There was a discussion on changing the time for Saturday morning breakfasts from 10:00 a.m. to 9:00 a.m. A vote was taken and the time has been set earlier to 9:00 a.m.

Sherm, W9NGT, moved to adjourn the meeting. Seconded by Larry, WB9BVB. Motion passed. Meeting adjourned at 8:56 p.m.

Following the meeting, everyone enjoyed a program on Radio Propagation presented by Gary Sutcliffe, W9XT.

Saturday Morning Breakfast Schedule

02/04/95, 9:00 a.m., Fay's in West Bend
02/11/95, 9:00 a.m., Jimmy's in Jackson
02/18/95, 9:00 a.m., Corfu in Hubertus
02/25/95, 9:00 a.m., Slinger Inn in Slinger

ManCoRad Radio Club

Continued from page 11

Steve	N9PBL
Carl	KA9ZTF
Willie	W9TQV
Clancy	KB9ECW
Vic	WB9VYO
Paul	N9QFX
Gene	WB9DQD
Dan	N9FVZ
Glen	AA9MT

Notes and Reminders

- If you have questions about your subscription to BSSS (getting the paper by your membership in two or more participating clubs, etc.), direct your queries to Ken Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901, phone (608) 742-3560. Ken is our Circulation Department.

- When sending exam schedules, swapfest dates, and the like for publication, those also go to K9EN, NOT to K9ZZ or WB9UQT. If mailed to the incorrect staffer, they may be misplaced, as we are all doing our own parts of the paper. We seldom see each other, and it's hard to keep track of everything as it is. Your cooperation is appreciated - and necessary. Thanks.

- Secretaries of participating clubs are reminded to send club minutes and any other material for publication no later than five days after your meeting. This helps us serve your club the very best we can. We want to do so, so please help us by promptly sending your club information to K9ZZ.

Red Cedar Repeater Association, Inc.



Steve Hart, KA9OMC, Secretary



E616 810th Avenue

Knapp, WI 54749

2-Meter Repeater: 146.01 Input/146.61 Output

Greetings, RCRA sponsors and guests.
Welcome to the new year.

This is always the busy part of the year, with many of you corresponding by mail and getting the auction notices out. The following represent those who have made support pledges since the beginning of the year:

N9FVA	Chuck Thomas
N9LRV	Gerald Leff
KA9ZDQ	Brian Leff
KE9CS	Ken Dicks
N9WJY	Rod Steele
NQ9X	Ed Van Sickle
WB9WKO	Ron Purvis
KA9WZP	Mary Purvis
WB9YMB	Jim Hilborn

Many thanks to all who continue to help.

Please make welcome Channel 18 site manager WB9NSI, Dave White, to our regulars around the system. Dave oversees the operations where our repeater is located, and has just renewed his interest in the hobby.

Code practice, anyone? The "on air" code practice on the repeater has been running for about nine weeks, and appears to be a success. Our first graduate is N9-

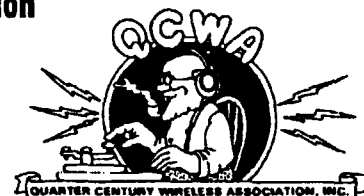
PPE, Jeff Cole, from Bloomer. Jeff passed his 5 WPM test at the Eau Claire exam session on January 14. The practice will continue for the winter months, and a parallel effort is being offered by the 145.47 MHz repeater on Thursday evenings at 7 p.m. Join our practice on Wednesday evenings at 7 p.m.

Plans are set for the annual Eau Claire Auction, coming up on February 28. We will again be hosting the activity at the American Legion Post 53 at 634 Water Street. Doors open at 6 p.m. for you to set up your equipment. Items should pertain to the electronics hobby. Be sure to mark all items with a minimum bid you will accept, and your name, call, and anything that might aid the sale. W9QAH, Col. Bruce Walther, will auction the items to the highest bidder. RCRA is not responsible for any loss. Keep track of your stuff. Admission is \$3.00 at the door, or paid RCRA 1995 support. The auction will start at 7 p.m. sharp, and we will sell what time will allow. RCRA will retain 10% of all sales to offset expenses. Come to buy, sell, or just to have fun. See you at the Eau Claire Auction.

RCRA Secretary/Treasurer
Steve Hart, KA9OMC

Quarter Century Wireless Association Southern Wisconsin Chapter 162

Larry McCalvy, WA9JMO
5400 Six Mile Road
Radne, WI 53402



For Christmas, Spence Clope, W9LDH, received two 36 inch by 48 inch maps, one of the world and one of the USA. Being a practical minded individual, Spence mounted the maps, gathered some map pins and set about to pin each location that he had talked to over the last 61 years. With Ham logs dating from 1934, and a large box of multi-colored pins, Spence has been checking, tacking and reminiscing over past contacts. An excellent visual exhibit of his contacts for all to see, once the project has been completed. Last I heard, Spence was hot on the trail of some more map pins.

The Chapter had been looking for a low band rig to complement and update our growing array of Ham gear. Thanks to Bruce Zabler, K9RRS, and a vote of our members, we now are the owners of a Ten-Tec Delta 580. A power supply for the 580 is under construction and should be ready for our classes during the 3-day camp-out of a local elementary school's fifth grade students at the end of May.

The new year was only a few days old when our President, Bill Komistra, W9OVZ, on his way to a volunteer assignment, encountered a nasty piece of slippery ice and landed on his back side. Bill righted himself, carefully negotiated the remaining distance and completed the volunteer work before his body said "that's

enough." A trip to the doctor, resulting in a battery of tests and several days of bed rest followed. At this writing, Bill is still awaiting the outcome for one of the tests.

Our Valentine brunch is scheduled for Sunday, the 19th of February 1995 at the Station in Kenosha beginning at 1:00 p.m. The Station is under new management and has made some special arrangements for our group. If the service and food are as enjoyable as our last outing there, we are in for a very pleasant afternoon. Our Secretary/Treasurer will send out detailed post cards about 10 days before the event.

Our weekly net meets Thursday evening at 9:00 p.m. on the Lakeshore Repeater, 147.270. If you have two-meter capabilities and have not joined our round-robin QSO's, please do so; we generally have a great time.

A last reminder, our Annual South-easter Wisconsin Amateur Radio Banquet will be held on Saturday, the 25th of February 1995, at Ensenada's Restaurant, 8300 Washington Avenue in Racine. See the flyer announcing the event and send your reservations with menu selection and a check made out to QCWA, Chapter 162, to: Bob Jensen, W0WLN, 5616 Cambridge Lane, #6, Racine, WI 53406.

73, Larry McCalvy, WA9JMO

From the Editor

- **Joining the Wisconsin QSO Party Fun?** We'd like to have a photo of your operation, whether fixed, mobile, portable, on roller blades (DON'T do that!), or whatever, to print in our WQP Rogue's Gallery with the official results. Those results will be published in a forthcoming issue, and that's usually the June number. You can include your properly focused, correctly exposed color or black and white photos with your entry and the WQP Committee will send them along to us.

- **Yes, Virginia, there IS a Santa Claus!** We've been in need of a piece of additional equipment for some time for making production of this newspaper faster, easier, and simpler. Thanks to a number of caring radio amateurs, we now have it. For all the information about the item, what it does for us, and a bit of how it arrived on the editor's BSSS typing desk, check out page 13. There's only one problem with it: it is a lot smarter than your editor. But does it work!!

- Jim Romelfanger, K9ZZ

Ham Radio Needs a National Emergency Frequency!

By D. R. "Kuby" Kubichek, N6JSX/9
1502 South 10th Street, Manitowoc, WI 54220

Have you ever been traveling through strange lands and needed to report an EMERGENCY to NOT know what frequency the local repeater is or discover the repeater directory has multiple area repeater listings? You begin calling for help on the various repeaters to discover you can't bring up any of the repeaters. I found the ARRL repeater guide does not make any differentiation as to what is THE DOMINANT wide coverage area repeater and some repeaters listed haven't been operational for over a year. And also I found that often the PL frequencies are wrong or not listed. However, this all assumes that you have a repeater guide with you during your travels! I've even got on 146.520 MHz simplex (National Calling frequency) and yelled for help only to get NO response.

The other night while commuting home from Milwaukee in a semi-blizzard making Interstate-43 a single lane, snow covered slippery mess, I spotted three occupied vehicles in the ditch. I tried in vain to raise any HAM on three local repeaters adjacent to I-43. As typical no one was monitoring. I've heard the arguments that ALL of Amateur Radio is for EMERGENCY communications but I found that there is NO single focal point to obtain EMERGENCY assistance and repeaters are NOT religiously monitored even when life threatening weather conditions are occurring!

Even with all my multi-band radios in my vehicle I couldn't get any help. A cellular telephone with the FREE 911 EMERGENCY call seems to be the only answer to this dilemma, today.

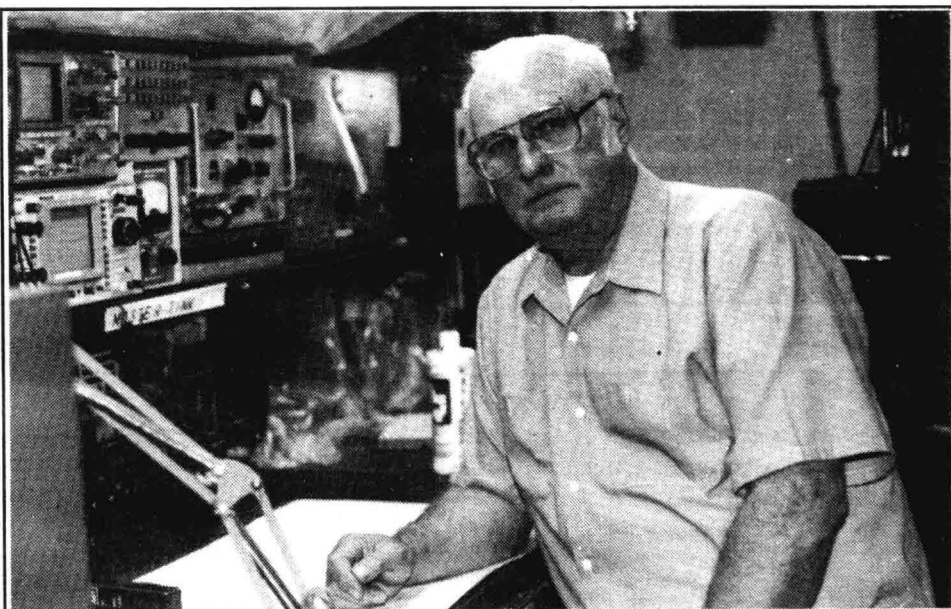
I have a HAM solution for this problem. But it will take the backing of all the National HAM leaders and EMERGENCY conscious Amateur organizations! I propose that 146.550 MHz should be made the United States NATIONAL EMERGENCY (simplex) FREQUENCY! Other communications services have a specific EMERGENCY CALLING frequency or channel. CB has channel nine (27.065 MHz). Boaters have Marine VHF channel sixteen (156.800 MHz) and the International Maritime Distress frequency is 2182 kHz. And the Aviation EMERGENCY frequency is 121.500 MHz. During major holiday weekends I've found the CB REACT groups monitoring channel 9 and 19, but seldom do I find this type of effort on HAM radio except with the California I-5 and HWY 99, San Joaquin Valley hams on their linked two meter repeater system. But that's only good if you know the repeater frequencies in the link

Part 97.1(a) states that part of Amateur Radio's CHARTER is for "EMERGENCY communications" and yet we have NO special frequency created to assist the "everyday local EMERGENCIES." Part 97 Rules specify certain band areas for beacons, simplex/QRP, satellite, and repeater operations. But NO EMERGENCY frequencies are specified.

The 146.550 MHz as a dedicated NATIONAL EMERGENCY frequency is not, typically, a repeater frequency or in the satellite or beacon operational area. Local repeaters (on 6M, 2M, 220, 440, etc.) could monitor this SINGLE frequency with an auxiliary receiver. If a signal is received on 146.550 MHz with either the EMERGENCY PL tone (recommended 100.0 Hz) or a DTMF tone for at least three seconds (recommended DTMF #1) the repeater would retransmit the audio through the repeater. This would alert local hams that a need to render immediate assistance is being requested. Hams using a common scanner or a simple crystal based monitoring receiver could detect the EMERGENCY PL and/or DTMF signal and then render good Samaritan assistance separate from any repeater. We could even find some law enforcement groups installing monitoring receivers in their dispatch center.

The real issue is in obtaining EMERGENCY "LIFE and property saving action!" NOT what frequencies, PL's, or DTMF numbers should be used.

HAM RADIO'S AUCTIONEER



Col. Bruce Walther, W9QAH: Mr. Auctioneer

"Going once, going twice - sold" is what many hams hear each year on the 4th Tuesday of February in Eau Claire. The voice behind the microphone is none other than W9QAH, Bruce Walther from Stevens Point.

Bruce's interest in electronics started in Menomonie where he began his career at what used to be "Red's TV" next to the State Theatre. Bruce remembers sleeping overnight at the shop on a army cot. From there he moved on to Bushland Radio in Eau Claire, and finally employment with the telephone industry.

Many hams have received some technical help, parts, schematics and good advice from Bruce. His interest in radio is mostly in the restoration of old gear, collecting tubes and operating advanced mode or AM.

Join Bruce again on February 28th in Eau Claire for this year's annual auction.

- Photo and story courtesy Steve Hart/KA9OMC

The traveling hams will NO longer need a, marginally useful, repeater guide or repeater PL knowledge to get EMERGENCY assistance. Just a radio that can transmit on 146.550 MHz with a PL tone or sending a DTMF number.

Two meters is the MOST logical beginning for this dedicated, EMERGENCY frequency as two meters is the most commonly used local HAM band with the most hand-held and mobile radios sold. But nothing says that 52.520, 223.520, and 446.500 MHz couldn't also be considered for EMERGENCY ONLY use. Amateur Radio needs to put into the Part 97 Rules a dedicated EMERGENCY frequency(s). Let's start with 146.550 MHz.

This single EMERGENCY frequency can be pre-programmed into our radio memory eliminating the dangerous operations of dialing up multiple repeater frequencies or PL tones while driving down the highway.

This same concept could be used on the National Calling frequencies; such as 146.520 MHz using PL or DTMF (recommended 103.5 Hz or # 2 for three seconds) with local repeaters for the wondering traveler seeking general area information.

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From the Old Goat

Jim Romelfanger,
K9ZZ, Editor



great deal of concern, the editorial that appeared in the December 1994 issue of BSSS. (The editorial mentioned our need for a flatbed scanner to make production of this newspaper easier and faster. - editor.) Twenty-five years of dedicated volunteer devotion to writing, publishing and improving a quality Amateur Radio newspaper, often, we're sure, with very little thanks on the part of its readership, is in anybody's league a noteworthy milestone. Many here are familiar with the term 'burnout' in association with arduous tasks, even if they are 'labors of love.' Some have even undertaken the task of trying to maintain a monthly tabloid in their own endeavors.

"Almost without exception, as the volunteers dwindled, so did the publication. With these thoughts in mind, several local Hams discussed the editor's desires for some much needed assistance in the form of a ScanJet to aid in the publication of Badger State Smoke Signals, and made it happen. Hopefully, with this assistance, and future

assistance from others among the readership, BSSS will continue to flourish and grow.

- from (a) very concerned Southeastern Wisconsin Anonymous Amateur Radio Operator(s)"

Gracious! It did happen, and we're still recovering from not only the shock but from seeing just what a great job the Hewlett-Packard ScanJet 3p does, especially with optical character recognition (OCR). Amazing! To those in southeastern Wisconsin who pushed this to fruition so quickly, and to the Red Cedar Repeater Association for some added help, from the heart we say a very sincere thank you!

We gently tucked the old goat back to his comfy little pad, where he snuggled in for the night, his face looking happy, and his spirits obviously lifted.

• No information for publication in this issue was received from the Racine Megacycle Club or the Wisconsin Valley Radio Association. □

NEW PRODUCTS

Continued from page 9

minimum possible SWR or 1.5:1, eliminating the need to tune each time you transmit, unless desired.

The IC-738 is equipped with two antenna connectors directed by an automatic antenna selector. The memory channels for each band memorize the selected antenna, antenna one or two. When you change the operating band, you don't have to manually change the antenna.

Next Generation frequency management is accomplished with Icom's quick split function. This allows the offset frequency to be programmed in advance. Then you can push the SPLIT button for one second to select all the necessary settings for split frequency operation - great for competition use. A split lock function prevents you from accidentally changing the receive frequency while changing the transmit frequency, and a dial lock function electronically

locks the main dial.

The Double Band Stacking Register (DBSR) memorizes two frequencies and the mode in each band so you can use it like two VFOs in one band. Simply push the band key to recall the last-used frequency and mode. Push the band key again to call up another frequency and mode in the same band.

Up to 10 electronic memo pads are available to temporarily store the frequency and mode by pushing the memo pad-write switch--great for contesting or DX hunting. You can then continue to bandswitch. Recall the memo pad by pushing the memo pad-read switch until the desired frequency appears, and move the information to one of the 101 memory channels (includes 10 split memories and two scan edges), if desired.

Three scanning functions provide operating versatility.. programmed scan searches for signals over a specified range, memory scan searches all memories and memory select scan searches only those memories you have specified.

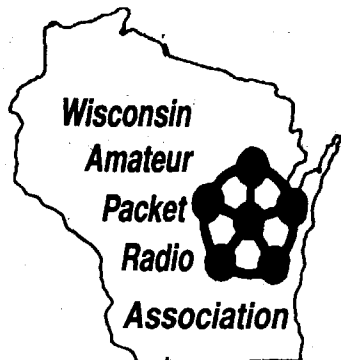
The IC-738 has passband tuning (PBT) and a notch filter to reduce interference. RF gain and a 10 dB attenuator prevent interference, while a

noise blanker function reduces pulse-type noise such as from a car ignition. An all-mode squelch system further enhances the signal. Other outstanding features include a set mode for adjusting infrequently changed values or conditions, a VOX function for convenient phone operation, fast/slow selectable AGC time constant, multiple metering (power, SWR and ALC during transmit; S-meter during receive) and a keypad for direct frequency input. The IC-738 comes with an HM-36 hand microphone, and the transceiver is compatible with Icom's CI-V system for control from a personal computer.

Options include CW filters, a CR-282 high-stability crystal unit for improved frequency stability and a UT-30 programmable tone encoder unit to access a repeater which requires a subaudible tone.

The suggested retail price for the IC-738 is \$1,935.00. For further information, please contact your local Icom amateur radio dealer or Icom America, Inc., 2380-116th Avenue N.E., Bellevue, WA 98004, (206)454-8155.

- Icom news release



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

Ted Heilmann, N9LLT
921 8th Avenue • Grafton, WI 53024

Joel Papke, N9BQM, Editor, 7968 Ubinger, Pittsville, WI 54466

WAPR news was not received in time to meet the publication deadline for this issue. We expect to have a report on the WAPR meeting in Green Bay for next month.

The following are some late ARRL bulletins received via the packet BBS system.

QST de WIAW
ARRL Bulletin 6 ARLB006
From ARRL Headquarters
Newington CT January 24, 1995
To all radio amateurs

SB QST ARL ARLB006
ARLB006 Hams aid Japan relief

Hams aid Japan relief

More than 200 amateurs are providing communication in the Kobe, Japan area following an earthquake on January 16 that killed more than 5000 people and left tens of thousands homeless.

Amateur Radio is being used to connect relief centers and to exchange information on road conditions and traffic; the health, welfare, and whereabouts of residents; and the availability of water and food, according to the Japan Amateur Radio League.

The JARL and the Japan Amateur Radio Equipment Industry Association (JAIA) are conducting the effort, at the request of the Ministry of Posts and Telecommunications. 200 hand-held transceivers for 430 and 1260 MHz, as well as three repeater stations, were supplied by JAIA member companies for the operation. Each portable station has been assigned a special call sign -- 8J3AAA, 8J3AAB and so on.

JA3YRL in Kobe serves as communication coordinator, while JA3RL, at the JARL's Osaka office, monitors the activity.

400 of the 600 relief centers (with a total of 240,000 evacuees) are not being served by this communication system, and the JARL is considering equipping at least half of them with amateur stations.

NNNN

QST de WIAW
ARRL Bulletin 7 ARLB007
From ARRL Headquarters
Newington CT January 25, 1995
To all radio amateurs

SB QST ARL ARLB007
ARLB007 Vanity calls soon

FCC has announced its intention to implement a vanity call sign program, and also to resume the issuance of club and military recreation station licenses. In a January 24 news release, the Commission released a general outline of the new program.

Amateurs will be eligible to apply for a call sign of their choice in four "gates." The first group eligible to apply will be previous holders of a call sign or the close relative of a previous holder of

amateur call sign who is deceased. The second group will be Amateur Extra Class licensees, then Advanced, then all others. The FCC will announce the opening of each "gate" by public notice.

The FCC said that the first gate will open as soon as a new application form, FCC Form 610-V, is available and the Commission's licens

Report and Order on this matter is released. Club station call signs will be issued systematically, unless under the fourth "gate" the trustee of an existing club station applies for the call sign of a deceased member as a vanity call sign for the club.

The fee for the use of vanity call signs will be 7 dollar(s) per year, or 70 for dollar(s) a ten-year license term, according to Wireless Telecommunication Bureau staff. However, on January 12, 1995, in a notice of proposed rule making, the FCC proposed a fee of 3 dollar(s) per year, for fiscal year 1995 (which began October 1, 1994).

Amateurs will be able to list up to 25 call sign choices, from any call area, FCC staff said. It is expected that it will be several weeks before the new form 610-V is approved.

More information was in July 1994 QST, page 84; June QST, page 81; and February QST, page 84. (PR Docket 93-305).

NNNN

QST de WIAW
ARRL Bulletin 8 ARLB008
>From ARRL Headquarters
Newington CT January 26, 1995
To all radio amateurs

SB QST ARL ARLB008
ARLB008 Board meeting news

ARRL Board of Directors met in San Antonio, Texas, January 20 and 21, 1995. Here are the highlights.

The Board adopted a Strategic Long Range Plan that has been in preparation since May 1994, and instructed President George Wilson, W4OYI, to begin implementation. President Wilson appointed three new committees to coordinate the most critical aspects of plan implementation.

A package of legislative goals was adopted, including positions on special call sign and licensing fees, spectrum allocations, liability protection for volunteers, RF susceptibility of consumer equipment, better rules enforcement,

and commercial competition for spectrum. A fund raising effort in support of the AMSAT Phase 3D satellite project was approved, including a 150,000 dollar matching fund program.

An operational plan and budget for 1995 and 1996 was approved. ARRL dues were raised by one dollar per year effective April 1, 1995.

Repeater coordinators will be invited to an open meeting to discuss ways of strengthening FCC support of local and regional coordinators, and related issues.

A draft petition for greater flexibility in spread spectrum operation was revised to limit such operation to bands above 420 MHz, and the General Counsel was instructed to file the petition with FCC.

The ARRL will file comments supporting participation by radio amateurs in state and local emergency communications operating plans under the new Emergency Alerting System that will replace the Emergency Broadcast System.

The final report of the Ad Hoc 219 MHz Committee was adopted, in preparation for an expected announcement of an amateur allocation in this band.

The Hiram Percy Maxim Birthday Celebration that was so popular in September 1994 was made an annual event.

Directors Harrison, Kanode, Mendelsohn, and Quiat were elected to one year terms on the ARRL Executive Committee.

Helen Grauer, NOBCI, and Directors Metzger and Butler were elected to three year terms as Directors of the ARRL Foundation.

Studies were ordered of ways to oppose restrictive covenants that limit amateur operation, and to increase FCC enforcement of its amateur rules.

The complete minutes of the meeting will appear in March QST.

NNNN

WISCONSIN AMATEUR PACKET RADIO MEMBERSHIP APPLICATION

PLEASE PRINT

NAME: _____ CALL: _____ HOME PHONE: (____) _____
ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____
HOME BBS: _____ FREQ. _____ (Listing your HOME BBS is important)
Your HOME BBS should be a full service BBS, not your TNC's mailbox.
MY PACKET STATION OPERATES: _____ DAY _____ NIGHT _____ 24HRS
I OPERATE A: _____ DIGIPEATER WITH ALIAS OF: _____
_____ FULL SERVICE BBS
PRIMARY PACKET INTEREST/EXPERTISE IS: _____

☐ YES I want to receive Badger State Smoke Signals and I understand that part of my dues goes to pay this subscription.

☐ NO I do not wish to receive Badger State Smoke Signals as a part of my WAPR membership.

COMPLETE and return this form with your check or money order for
\$15.00 made payable to W.A.P.R.

to: Ted Heilmann, N9LLT, 921 - 8th. Avenue, Grafton, WI. 53024

QST de WIAW
ARRL Bulletin 9 ARLB009
From ARRL Headquarters
Newington CT January 27, 1995
To all radio amateurs

SB QST ARL ARLB009
ARLB009 Two apply to IARU

Two apply to IARU

Amateur Radio societies in Turkmenistan and Burkina Faso have applied for membership in the International Amateur Radio Union.

The IARU Region 1 executive committee has found both applications to be in order and current member societies are now voting, through June 19, 1995, on proposals for their admission. The ARRL has voted in favor of both applications.

The president of the Turkmenistan Radio Amateur League (LRT) is Eugene M. Zwontsov, EZ8BO (ex-UH8BO). LRT says it has 24 members, 23 of whom are licensed to transmit. The total number of licensed amateurs in Turkmenistan is 32.

The Association des Radioamateurs du Burkina Faso (ARBF) says it has 29 members, including a number of officials of the Office National des Telecommunications. ARBF president is Youssef Kaba, XT2KY.

Current IARU membership is 144 national societies.
NNNN

THE TEST POINT (continued from page 3)

Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact: Carl Clark, NOKAX, 145 Delicia Drive, Dubuque, IA 52001. Or call Carl at 319-557-9149. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

Out of State Exams

Information Provided
by the ARRL/VEC



EASTERN IOWA

04/08/95, Clinton, 319-242-9486, Roger Gorzney
06/10/95, Clinton, 319-242-9486, Roger Gorzney
08/12/95, Clinton, 319-242-9486, Roger Gorzney
10/14/95, Clinton, 319-242-9486, Roger Gorzney
12/09/95, Clinton, 319-242-9486, Roger Gorzney

NORTHERN ILLINOIS

02/03/95, Westmont, 708-964-6712, Don Hlinsky
02/21/95, McHenry, 815-678-4276, Jack Hudson
03/21/95, McHenry, 815-678-4276, Jack Hudson
04/07/95, Westmont, 708-964-6712, Don Hlinsky
04/18/95, McHenry, 815-678-4276, Jack Hudson
05/16/95, McHenry, 815-678-4276, Jack Hudson
06/02/95, Westmont, 708-964-6712, Don Hlinsky

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call) • K9ODK (Robert L. Prine Memorial Call)



Raymond J. Matlosz, N9MLZ, Secretary

450 West 2nd Street • Reedsburg, WI 53959



The January 17, 1995 meeting of the Yellow Thunder Amateur Radio Club, Inc. was called to order at 7:34 p.m. by club president Bob Sauvan, WT9Q.

The minutes of the last meeting, as published in the BSSS, were accepted. Jim Decker, WB9UQT gave the financial report.

OLD BUSINESS: Planning for next months open house was the focus of this evening's meeting. Club vice-president Bill Klinkner, K9KXX will head a committee to coordinate the activities for both the open house (press release, posters, poster distribution, video, and equipment) as well as the upcoming class. It was decided that the class would begin in March.

NEW BUSINESS: Leonard Wagner, N9XJG submitted his application to be a club member. He was accepted unanimously as a new member. Art Kleefisch, W9WSS recieved a letter regarding this year's Youth Opportunity Days to be held in Baraboo. A planning meeting was scheduled Monday January 30, 1995 at 7:30 p.m. Steve Schulze, N9UDO agreed to be the contact person for that event. It was requested that the club secretary contact ARRL to obtain Archie Comic books for this and other events that the club participates in. Jim Decker indicated that Room 14 was confirmed as the club's meeting place at the Baraboo Civic Center through May 1995.

Members were reminded that club dues for 1995 are now past due and all members who have not paid were encouraged to do so at their

earliest convenience.

Buck night winner was the absent John McDonough, KB9HTT.

Meeting adjourned at 8:35 p.m.

The next meeting will be held Wednesday February 15, 1995 at 7:30 p.m., room 14 in the Baraboo Civic Center.

Sincerely,
Raymond J. Matlosz, N9MLZ, Secretary

The following members and guests were present for the meeting.

Ken Johnson	K9DZG	Mazomanie
Steve Schulze	N9UDO	Baraboo
Art Kleefisch	W9WSS	Baraboo
Jim Decker	WB9UQT	Baraboo
Bill Klinkner	N9KXX	Sauk City
Anne Klinkner	N9PQL	Sauk City
Raymond Matlosz	N9MLZ	Reedsburg
Bill Hommel	KA9QFJ	Baraboo
Domenic Bianco	KA9QFK	Reedsburg
David Spearing	KB9CSW	Portage
Thomas Harrison	N9PQJ	Reedsburg
Robert Suavan	WT9Q	Sauk City
Len Wagner	N9XJG	Baraboo

The reason it's so difficult to make ends meet is because someone is always moving the ends.

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SSB

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FOR SALE: Package deals of electronic material - Bring you truck and trailer - Reasonable prices. Will trade for metal-working tools and tooling, etc. Unusual items. Dave Boyce, WB9QYJ, 1159 Hobart, Green Bay, WI 54303 (414) 499-7887.

WANTED: I am a collector of Amateur Radio call letter auto license plates and my collection includes ham plates from all 50 state, all the Canadian provinces and territories, plus a few others.

I am trying to find a 1952 Wisconsin ham plate for my collection. I believe this was the first year that ham plates were issued in Wisconsin. Can you help me? I would be happy to pay for any expenses involved. Mike Ludkiewicz, W1DGJ, 143 Richmond Road, Ludlow, MA 01056.

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

Another reminder: Before you give someone a piece of your mind, make sure you can spare it.
--Earl A Mathes, Kiel Tri-County Record

The man noticed that he had no spoon for his coffee. Waiter, he said...this coffee is too hot for me to stir with my finger. The waiter soon returned with another cup of coffee. Here. Try this one. It's not as hot.

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A kid saying his night prayers closes with: "And please, God, make Milwaukee the capital of Wisconsin."

His mother hears this and asks, "Why would want Milwaukee to be the capital of Wisconsin?"

The kid says, "Because that's what I put down on my test."

Florence Berglund,
Tribune-Record-Gleaner, Loyal

The Badger State Smoke Signals Shopper's Guide

SWAPFESTS



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(414) 762-3235
P. O. Box 102

Extension 58
South Milwaukee, WI 53172

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November 5, 1995

Starlite Club, Hwy. 55 north of Kaukauna

HAMFEST INFO:
Dan Vanevenhoven, N9LVS
2410 E. Newberry Ct.
Appleton, WI 54915
414-739-5101

EXAM INFO:
Larry Siebers, KD9IA
414-788-3823

Lakeshore Hamfest & Computer Swapfest

Manitowoc County Expo

Intersection of Hwys 42-151 and I-43 on Cty Highway R

Saturday, May 13, 1995

For more information, call:

Glenn, AA9MT: 414-684-7096
Red, N9GHE: 414-684-9097 (Nights)

ManCoRad Radio Club • P.O. Box 204 • Manitowoc, WI 54221-0204

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Info: Art Wysocki, N9BCA
3356 April Lane

(715) 344-2984
Stevens Point, WI 54481

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8 a.m. to 1 p.m. • Circle B Recreation Center

Intersection of Highway 60 and County I

Exams by Badger Examiners, c/o Gary Sharbuno,

5119 W. Willow Rd., Brown Deer, WI 53223

Swapfest sponsored by Ozaukee Radio Club

11448 N. Laguna Drive • Mequon, WI 53092

Kettle Moraine Radio Amateurs

Waukesha County Expo Center

Info: KMRA Swapfest

P.O. Box 411

Waukesha, WI 53187-0411

Red Cedar Repeater Association, Inc.

AUCTION

February 28, 1995 • 7:00 p.m.

American Legion Post 53 • 634 Water Street

Eau Claire, WI

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Steve Hart, KA9OMC
E615 810th Ave.

715-665-2374
Knapp, WI 54749

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